

1,4 - ジクロロ - 2 - ニトロベンゼンのマウスを用いた
経口投与によるがん原性試験(混餌試験)報告書

試験番号：0329

APPENDIX

APPENDIXES

APPENDIX A 1	CLINICAL OBSERVATION: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX A 2	CLINICAL OBSERVATION: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX B 1	BODY WEIGHT CHANGES: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX B 2	BODY WEIGHT CHANGES: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX C 1	FOOD CONSUMPTION CHANGES: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX C 2	FOOD CONSUMPTION CHANGES: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX D 1	CHEMICAL INTAKE CHANGES: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX D 2	CHEMICAL INTAKE CHANGES: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX E 1	HEMATOLOGY: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX E 2	HEMATOLOGY: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX F 1	BIOCHEMISTRY: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX F 2	BIOCHEMISTRY: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX G 1	URINALYSIS: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX G 2	URINALYSIS: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX H 1	GROSS FINDINGS: SUMMARY, MOUSE: MALE: ALL ANIMALS (2-YEAR STUDY)
APPENDIX H 2	GROSS FINDINGS: SUMMARY, MOUSE: FEMALE: ALL ANIMALS (2-YEAR STUDY)
APPENDIX H 3	GROSS FINDINGS: SUMMARY, MOUSE: MALE: SACRIFICED ANIMALS (2-YEAR STUDY)
APPENDIX H 4	GROSS FINDINGS: SUMMARY, MOUSE: FEMALE: SACRIFICED ANIMALS (2-YEAR STUDY)
APPENDIX H 5	GROSS FINDINGS: SUMMARY, MOUSE: MALE : DEAD AND MORIBUND ANIMALS (2-YEAR STUDY)
APPENDIX H 6	GROSS FINDINGS: SUMMARY, MOUSE: FEMALE: DEAD AND MORIBUND ANIMALS (2-YEAR STUDY)
APPENDIX I 1	ORGAN WEIGHT, ABSOLUTE: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX I 2	ORGAN WEIGHT, ABSOLUTE: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)

APPENDIXES (CONTINUED)

APPENDIX J 1	ORGAN WEIGHT, RELATIVE: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX J 2	ORGAN WEIGHT, RELATIVE: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX K 1	HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY, MOUSE: MALE: ALL ANIMALS (2-YEAR STUDY)
APPENDIX K 2	HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY, MOUSE: FEMALE: ALL ANIMALS (2-YEAR STUDY)
APPENDIX K 3	HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY, MOUSE: MALE: SACRIFICED ANIMALS (2-YEAR STUDY)
APPENDIX K 4	HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY, MOUSE: FEMALE: SACRIFICED ANIMALS (2-YEAR STUDY)
APPENDIX K 5	HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY, MOUSE: MALE: DEAD AND MORIBUND ANIMALS (2-YEAR STUDY)
APPENDIX K 6	HISTOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS: SUMMARY, MOUSE: FEMALE: DEAD AND MORIBUND ANIMALS (2-YEAR STUDY)
APPENDIX L 1	NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS-TIME RELATED, MOUSE: MALE (2-YEAR STUDY)
APPENDIX L 2	NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS-TIME RELATED, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX M 1	HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS: SUMMARY, MOUSE: MALE (2-YEAR STUDY)
APPENDIX M 2	HISTOLOGICAL FINDINGS: NEOPLASTIC LESIONS: SUMMARY, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX N 1	NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS, MOUSE: MALE (2-YEAR STUDY)
APPENDIX N 2	NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS, MOUSE: FEMALE (2-YEAR STUDY)
APPENDIX O 1	HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY, MOUSE: MALE: ALL ANIMALS (2-YEAR STUDY)
APPENDIX O 2	HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY, MOUSE: FEMALE: ALL ANIMALS (2-YEAR STUDY)
APPENDIX O 3	HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY, MOUSE: MALE: SACRIFICED ANIMALS (2-YEAR STUDY)
APPENDIX O 4	HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY, MOUSE: FEMALE: SACRIFICED ANIMALS (2-YEAR STUDY)

APPENDIXES (CONTINUED)

APPENDIX O 5	HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY, MOUSE: MALE: DEAD AND MORIBUND ANIMALS (2-YEAR STUDY)
APPENDIX O 6	HISTOLOGICAL FINDINGS: METASTASIS OF TUMOR: SUMMARY, MOUSE: EMALE: DEAD AND MORIBUND ANIMALS (2-YEAR STUDY)
APPENDIX P 1	IDENTITY AND IMPURITY OF 1,4-DICHLORO-2-NITROBENZENE IN THE 2-YEAR FEED STUDY
APPENDIX P 2	STABILITY OF 1,4-DICHLORO-2-NITROBENZENE IN THE 2-YEAR FEED STUDY
APPENDIX P 3	CONCENTRATION OF 1,4-DICHLORO-2-NITROBENZENE IN FORMULATED DIETS IN THE 2-YEAR FEED STUDY
APPENDIX P 4	STABILITY OF 1,4-DICHLORO-2-NITROBENZENE IN FORMULATED DIETS IN THE 2-YEAR FEED STUDY
APPENDIX Q 1	METHODS FOR HEMATOLOGY, BIOCHEMISTRY AND URINALYSIS IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE
APPENDIX Q 2	UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

APPENDIX A 1

CLINICAL OBSERVATION : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day		3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7												
DEATH	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	2	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day			18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7											
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOBRECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 3

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEATH	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 4

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	2	2	2	2	2	2	3	3	3	3	3	3	3	4
	320 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	800 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	1	1	1	1	1	1	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 5

Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
DEATH	Control	4	5	5		5	5	5	5	5	5	5	5	5	5	5
	320 ppm	1	1	1		1	1	1	2	3	3	3	3	3	4	4
	800 ppm	1	3	3		3	3	3	3	3	3	4	4	4	4	4
	2000 ppm	1	1	1		1	1	1	1	2	2	2	2	2	2	3
MORIBUND SACRIFICE	Control	0	0	0		0	0	0	1	1	1	1	1	2	2	2
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	1	1	1
	800 ppm	0	0	1		1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	1	1	1		1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0		0	0	0	1	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	1	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0		0	0	0	1	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0		1	1	1	1	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0		0	1	1	1	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0		1	1	1	1	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	1	1
	800 ppm	0	1	0		0	0	0	0	0	0	0	0	1	1	1
	2000 ppm	0	0	0		0	0	0	0	1	2	0	1	1	1	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 6

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	5	5	5	6	6	6	6	7	8	8	8	10	11	11
	320 ppm	4	4	6	6	6	6	6	6	6	6	7	7	7	7
	800 ppm	4	4	5	5	5	6	6	7	8	8	8	8	10	10
	2000 ppm	4	4	4	4	4	6	6	8	9	9	9	12	13	14
MORIBUND SACRIFICE	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	320 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERRECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	0	0	0	0	0	0	0	0	1	1	1	2	0
	800 ppm	1	1	1	1	2	1	1	1	0	1	1	2	1	1
	2000 ppm	0	0	0	0	1	0	0	0	0	0	0	1	1	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 7

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	11	11	11	11	11	11	11	13	13	14	14	15	17	17
	320 ppm	7	8	8	8	8	8	8	8	8	9	9	10	10	10
	800 ppm	10	10	10	11	13	14	16	16	16	18	18	18	18	18
	2000 ppm	15	16	16	18	19	21	21	23	24	24	25	25	26	26
MORIBUND SACRIFICE	Control	2	2	2	2	2	2	2	2	2	2	3	3	3	3
	320 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2000 ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
LATERAL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	1	0	1	1	1	2	0	0
	320 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 8

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	17	17	17	17	18	18
	320 ppm	11	12	12	13	13	14
	800 ppm	19	20	20	20	21	21
	2000 ppm	26	28	29	30	30	30
MORIBUND SACRIFICE	Control	3	4	4	4	4	4
	320 ppm	1	1	1	1	1	1
	800 ppm	2	3	3	3	3	3
	2000 ppm	2	2	2	2	2	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	1	0	0	0	0
	2000 ppm	0	0	0	0	0	0
LATERAL	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	2	2	1	0	0	0
	2000 ppm	0	1	1	1	1	2

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 9

Clinical sign	Group Name	Administration Week-day		3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
		1-7	2-7												
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 10

Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
FROG BELLY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CLOSED EYELID	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 11

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 12

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 13

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	1	2	2	2	2	2	3	3	3	3	3	3	3
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 14

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	3	3	3	3	2	2	2	2	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	2	2	1
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 15

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	1	1	1	1	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	2	2	2	2	2	2	3	3	3	3
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	1	1	1	0	1	1	1	1	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	320 ppm	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 16

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
FROG BELLY	Control	0	0	0	0	0	0
	320 ppm	2	2	2	1	1	0
	800 ppm	0	0	0	0	0	1
	2000 ppm	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0
	320 ppm	2	2	3	3	3	3
	800 ppm	0	0	0	0	0	0
	2000 ppm	3	3	3	3	3	3
GUM	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	2
	800 ppm	0	0	0	0	0	1
	2000 ppm	0	0	0	0	0	1
EYE OPACITY	Control	0	0	0	0	0	0
	320 ppm	1	1	1	1	1	2
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	2
CLOSED EYELID	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0
	320 ppm	1	1	1	1	1	2
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	2
DEFECT OF TEETH	Control	2	2	2	2	2	2
	320 ppm	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 17

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 18

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 19

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	320 ppm	1	1	1	1	1	1	1	1	1	2	2	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 20

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	2	2	2	2	2	3	2	2	2	2	2	2	2	2
	320 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	1	1	1	0	0	0	1	1	1	1	1	1	1	1
	2000 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	1	1	1	1	1	1	1	1	1	1	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 21

Clinical sign	Group Name	Administration Week-day				60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7												
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
EXTERNAL MASS	Control	0	0	0	0	0	0	1	1	2	3	3	3	3	3	3
	320 ppm	1	2	2	2	3	3	3	3	3	3	3	3	3	3	4
	800 ppm	1	0	0	0	0	0	0	0	0	1	1	2	2	2	2
	2000 ppm	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	320 ppm	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1
	800 ppm	1	0	0	0	0	0	0	0	0	2	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	1	1	2	2	2	2	2	3
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 22

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
EXTERNAL MASS	Control	2	2	4	3	3	3	3	2	3	4	4	2	1	1
	320 ppm	5	5	3	3	2	2	2	2	3	3	3	3	3	3
	800 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	1	1	1	0	0	0	0	0	0	0
INTERNAL MASS	Control	2	2	2	2	2	2	2	3	3	3	3	3	5	5
	320 ppm	1	1	1	1	2	3	3	4	4	5	4	4	4	4
	800 ppm	1	2	2	2	2	2	2	2	2	2	2	2	4	5
	2000 ppm	3	4	4	4	5	3	3	5	5	5	7	7	9	15
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	3	3	3	3	2	2	2	2	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	1	0	0	0	0	0	0	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 23

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	320 ppm	3	3	3	3	3	4	4	4	4	4	4	4	4	4
	800 ppm	0	0	0	0	0	0	0	1	1	1	1	1	2	2
	2000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	6	6	6	6	6	6	6	5	6	6	5	4	3	3
	320 ppm	6	5	5	6	7	7	7	7	6	5	5	5	6	6
	800 ppm	6	6	6	6	7	6	4	4	4	3	3	3	3	4
	2000 ppm	15	17	17	15	16	15	15	13	12	12	10	11	12	12
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
M. EAR	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 24

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1
	320 ppm	4	4	4	5	5	4
	800 ppm	2	1	1	1	1	1
	2000 ppm	1	1	1	1	1	1
INTERNAL MASS	Control	3	3	2	2	1	2
	320 ppm	5	5	5	5	5	5
	800 ppm	5	5	5	5	7	9
	2000 ppm	12	10	9	8	8	10
M. EYE	Control	0	0	0	0	0	0
	320 ppm	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1
M. EAR	Control	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0
	320 ppm	2	2	2	2	2	1
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	1	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 25

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 26

Clinical sign	Group Name	Administration Week-day				18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7												
M. ABDOMEN	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 27

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 28

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 29

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	1	1	1	1	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	1	1	2	2	2	2	2	2
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 30

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	1	1	1	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	1	1	1	1	1	1	1	1	1	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	1	1	2	1	1	1	1	1	2	2	2	1	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	1	1	1	1	1	1	1	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	1	1	1	1	1	1	1	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 31

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	2	1	1	1	1	1	1	2	2	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	2	3	3	2	2	2	2	0	1	1	1	1	1

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 32

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. ABDOMEN	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. INTERSCAPULUM	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0
	320 ppm	0	0	0	1	1	1
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. TAIL	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	1	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 33

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 34

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 35

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 36

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 37

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	1	1	1	1	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	800 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	1	1	1	1	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	1	0	0	0	0	0	1	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	2000 ppm	0	0	0	0	0	0	0	1	1	2	1	1	1	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	1	1	1	1	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	1	0	0	0	0	0	1	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	2000 ppm	0	0	0	0	0	0	0	1	1	2	1	1	1	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 38

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	2	1	1	2	1	1	1	0	0	0	1	1	1
	2000 ppm	0	0	0	0	0	1	1	1	1	1	1	2	2	1
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	1	1	1	1	1	1	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	2	1	1	2	1	1	1	0	0	0	1	1	1
	2000 ppm	0	0	0	0	0	1	1	1	1	1	1	2	2	1
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 39

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	1	1	1	1	1	1	1	1	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TORTICOLLIS	Control	0	0	0	1	1	1	1	1	1	1	0	0	0	0
	320 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	1	0	0	1	0	1	0	0
	320 ppm	1	0	0	0	0	1	1	1	1	1	1	1	2	2
	800 ppm	1	1	1	1	1	1	1	1	1	1	0	0	0	1
	2000 ppm	1	1	1	1	1	1	2	1	1	1	1	1	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	1	0	0	1	0	1	0	0
	320 ppm	1	0	0	0	0	1	1	1	1	1	1	1	2	2
	800 ppm	1	2	2	2	2	2	2	2	2	2	0	0	0	1
	2000 ppm	1	1	1	1	1	1	2	1	1	2	1	1	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	1	1	1	1	1	1	1	1	1	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 40

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
ULCER	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	1	0	1	1	1	1
TORTICOLLIS	Control	0	0	0	0	0	0
	320 ppm	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	320 ppm	0	0	1	1	1	1
	800 ppm	1	1	0	0	0	0
	2000 ppm	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0
	320 ppm	0	0	1	1	1	1
	800 ppm	1	1	0	0	0	0
	2000 ppm	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 41

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	10	10	30	44	44	50	50	50	50	50	50	50	50	50
	800 ppm	40	44	50	50	50	50	50	50	50	50	50	50	50	50
	2000 ppm	48	49	49	49	49	49	49	49	49	49	49	49	49	49
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1	0	2	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	2	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 42

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	800 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	2000 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 43

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	800 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	2000 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 44

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
DEEP BREATHING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	50	50	50		50	50	50	50	49	50	50	49	49	49	49
	800 ppm	50	50	50		50	50	49	49	49	49	49	49	49	49	49
	2000 ppm	49	49	49		49	49	49	49	49	49	49	49	49	49	49
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	1
OLIGO-STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	1	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	1	1
SUBNORMAL TEMP	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 45

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	49	49	49	49	49	49	48	47	47	47	47	47	45	45
	800 ppm	49	47	46	46	46	46	46	46	46	45	45	45	45	45
	2000 ppm	48	48	48	48	48	48	48	47	47	47	47	47	47	46
SMALL STOOL	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	1	0	0	0	0	0	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	1	1	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	2	1	0	0	0	0	1	1	1
	800 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	1	0	0	0	1	1	2	2	2	3	3	3	3
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 46

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	1	1	1	1	1	1	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	45	45	43	43	43	43	43	43	42	43	42	42	42	42
	800 ppm	45	45	44	44	44	43	43	42	40	40	40	40	38	38
	2000 ppm	45	45	45	45	45	43	43	41	39	40	40	37	36	35
SMALL STOOL	Control	0	0	1	0	0	0	0	1	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	2	2	2	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	2	1	2	2	3	1	1
	2000 ppm	0	0	1	1	1	2	1	3	0	0	0	1	1	1
OLIGO-STOOL	Control	0	0	2	1	1	2	1	2	1	1	0	0	0	0
	320 ppm	1	1	0	0	0	0	0	1	1	4	1	3	4	2
	800 ppm	1	3	1	1	1	2	2	2	1	2	2	3	1	1
	2000 ppm	2	4	3	2	2	2	1	4	2	2	2	3	4	4
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

PAGE : 47

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	41	41	41	41	41	41	41	41	41	40	40	39	39	39
	800 ppm	38	38	38	37	35	34	32	32	32	30	30	30	30	30
	2000 ppm	34	33	33	31	30	28	28	26	25	25	23	23	22	22
SMALL STOOL	Control	0	0	0	0	0	0	1	0	0	1	0	1	0	0
	320 ppm	0	0	0	0	1	2	1	0	1	0	0	0	0	0
	800 ppm	0	1	0	0	1	1	0	0	0	0	0	0	0	2
	2000 ppm	1	1	1	1	0	0	0	2	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	1	0	1	2	1	2	0	0
	320 ppm	2	2	2	2	2	3	2	1	1	0	0	0	0	1
	800 ppm	0	0	1	0	2	1	0	0	0	0	0	0	0	2
	2000 ppm	5	4	4	2	7	4	5	4	1	2	1	1	1	0
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 48

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEEP BREATHING	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0
	320 ppm	38	37	37	36	36	35
	800 ppm	29	28	27	27	26	26
	2000 ppm	22	20	19	18	18	18
SMALL STOOL	Control	0	0	0	0	0	1
	320 ppm	0	0	0	0	0	0
	800 ppm	1	1	0	0	0	0
	2000 ppm	0	0	0	0	1	2
OLIGO-STOOL	Control	0	2	2	2	0	1
	320 ppm	1	1	1	3	3	2
	800 ppm	1	1	0	1	1	5
	2000 ppm	0	0	0	1	2	6
SUBNORMAL TEMP	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	1	0	0	0	0
	2000 ppm	0	0	0	0	0	0

APPENDIX A 2

CLINICAL OBSERVATION : SUMMARY, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 49

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	1	2	2	2	2	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 50

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 51

Clinical sign	Group Name	Administration Week-day				32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7												
DEATH	Control	1	1	1		1	1	1	1	1	1	1	1	1	1	1
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	2	2		2	2	2	2	2	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 52

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 53

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	800 ppm	0	0	1	1	1	1	1	1	1	2	2	2	3	3
	2000 ppm	2	2	3	3	3	4	4	4	4	4	4	4	4	4
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 54

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	1	2	2	3	3	3	4	4	4	5	5	5	5	5
	320 ppm	1	1	2	2	3	4	4	4	4	5	6	6	6	7
	800 ppm	3	3	3	3	3	3	3	4	4	4	4	5	5	6
	2000 ppm	4	4	4	4	5	5	6	7	7	7	7	7	8	9
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	2	2	3	3	4	4	4	4	4	4	4	4	4
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 55

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	5	5	6	8	8	9	11	11	12	13	14	14	14	15
	320 ppm	7	8	8	8	8	8	8	10	11	12	13	14	14	14
	800 ppm	6	6	6	6	8	9	9	10	11	11	11	11	12	13
	2000 ppm	10	10	12	13	13	14	14	16	17	17	17	17	18	18
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	1	1	2	2	2	2	2	2
	320 ppm	1	1	1	1	1	2	2	2	2	2	2	2	3	3
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	4	4	4	4	4	4	5	5	5	5	5	5	5	5
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	1	1	1	1	1	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 56

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	16	16	16	17	18	18
	320 ppm	14	15	17	18	18	19
	800 ppm	13	13	14	17	19	20
	2000 ppm	20	20	21	21	21	21
MORIBUND SACRIFICE	Control	2	2	2	2	2	2
	320 ppm	3	3	3	3	3	3
	800 ppm	1	1	1	1	1	1
	2000 ppm	5	5	5	5	5	5
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
TUMBLE	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	1	1
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 57

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOBRECTION	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 58

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOBRECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 59

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 60

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 61

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	2	1	1	0	0	0	0	0	1
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	320 ppm	0	0	0	1	1	1	1	1	1	1	1	1	0	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 62

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	320 ppm	0	1	0	0	0	0	2	2	2	1	2	2	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	2	2	2	2	0	0	0	0	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	1	0	0	0	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	2	1	1	1	1	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 63

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	1	1	3	3	3	1	0	0	0	0	0
	320 ppm	0	0	0	0	1	4	4	4	2	2	2	2	1	2
	800 ppm	1	1	1	1	1	2	2	2	1	1	1	1	1	1
	2000 ppm	0	0	0	1	1	1	0	0	0	0	0	0	0	1
TRAUMA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	1	0	0	2	2	2	2	2	2	2	2	1
	320 ppm	0	0	0	0	0	1	1	2	2	2	2	2	2	2
	800 ppm	0	0	0	1	0	2	2	2	2	2	2	3	1	1
	2000 ppm	0	1	0	0	0	0	0	0	1	1	1	1	1	1
SOILED PERI GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	1	1	0	1
	320 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	320 ppm	0	0	0	1	1	1	1	1	2	2	2	2	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 64

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
SOILED	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	1	1	1	0	0	0
	2000 ppm	0	0	0	0	0	0
PILOERECTOR	Control	0	0	0	0	1	1
	320 ppm	2	2	3	2	3	3
	800 ppm	1	1	2	0	0	0
	2000 ppm	0	0	0	0	0	0
TRAUMA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
FROG BELLY	Control	1	1	1	1	1	1
	320 ppm	3	3	3	2	2	2
	800 ppm	1	1	1	1	0	0
	2000 ppm	1	1	0	0	0	0
SOILED PERI GENITALIA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
EXOPHTHALMOS	Control	1	1	1	1	1	1
	320 ppm	1	1	1	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
GUM	Control	0	0	1	1	1	1
	320 ppm	2	2	2	1	1	1
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
EYE OPACITY	Control	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 65

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 66

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 67

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 68

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 69

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	1	2	2	2	2	2	2	2	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	1	1	2	2	2	2	2	2
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2000 ppm	1	1	0	0	1	0	0	0	2	2	3	3	2	2
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 70

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	1	1	1	1	1	1	1	2	2	2	2	2	2
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	1	0	0	0	0	0	0	0	1	0	0	0	0
EXTERNAL MASS	Control	1	2	2	1	1	1	1	1	1	1	1	1	2	2
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	1	1	2	2	2	2	1	1	1	0	0	1	1	1
	320 ppm	2	2	1	1	1	1	2	2	4	3	2	2	1	1
	800 ppm	1	1	1	1	1	1	1	0	1	1	1	1	1	0
	2000 ppm	2	2	2	2	3	4	4	3	3	3	3	3	2	2
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 71

Clinical sign	Group Name	Administration		Week-day											
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
CLOSED EYELID	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	1	1	1	1	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	3	3	3	3	3	4	3	3	2	1	0	1	0	1
	320 ppm	0	0	0	0	0	1	1	1	1	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	2	1	3
	320 ppm	1	2	2	3	3	4	5	5	4	4	3	3	3	4
	800 ppm	0	0	3	3	3	2	3	3	2	2	2	2	2	2
	2000 ppm	2	3	3	2	2	4	4	3	5	6	6	8	5	11
M. EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NECK	Control	1	1	2	2	2	2	2	2	2	1	0	0	0	0
	320 ppm	0	0	0	0	0	1	1	1	1	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 72

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
CLOSED EYELID	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
CORNEAL OPACITY	Control	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
DEFECT OF TEETH	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0
	320 ppm	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	1	1	1	1	1	1
	320 ppm	0	0	0	1	1	1
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
INTERNAL MASS	Control	3	3	5	4	3	3
	320 ppm	4	4	5	6	6	6
	800 ppm	2	3	3	1	1	1
	2000 ppm	10	10	10	10	10	10
M. EAR	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. NECK	Control	0	0	0	1	1	1
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 73

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 74

Clinical sign	Group Name	Administration Week-day			18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7											
M. FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 75

Clinical sign	Group Name	Administration Week-day														
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7	
M. FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 76

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
M. FORLIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	1	1	1	1
M. ANUS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 77

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
M. FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	1	1	1	1	1	1	1	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 78

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
M. FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 79

Clinical sign	Group Name	Administration Week-day			88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
		85-7	86-7	87-7											
M. FORLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	1	1	1	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	1	1	1	1	1	1	1	1	1	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	1	1	1	1	1	1	0	0	0	0	0	1	0	1
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 80

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. FORLIMB	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0
	320 ppm	0	0	0	1	1	1
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. HINDLIMB	Control	1	1	1	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
M. ANUS	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 81

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 82

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 83

Clinical sign	Group Name	Administration Week-day			32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
		29-7	30-7	31-7											
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 84

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
ULCER	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	1	1	1	2
ABNORMAL RESPIRATION	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	1	1	1	2
TACHYPNEA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 85

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	800 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	2000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	2	2	2	2	3	3	3	2	2	2	2	2	2
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	2	2	2	2	3	3	3	2	2	2	2	2	2
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 86

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	1	1	1	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	1	1	1	1	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 87

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
ULCER	Control	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	1	0	0	0	2	2	0	0	0	0	0	0
	320 ppm	0	0	1	1	1	2	1	1	1	0	0	1	0	0
	800 ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	1	0	0	0	3	2	0	0	0	0	0	0
	320 ppm	0	0	1	1	1	2	1	1	1	0	0	1	0	0
	800 ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 88

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
ULCER	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	1	1	1	0	0	0
	2000 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	1	1
	320 ppm	1	0	1	0	0	0
	800 ppm	0	0	1	0	0	0
	2000 ppm	0	0	0	0	0	0
ABNORMAL RESPIRATION	Control	0	0	0	0	1	1
	320 ppm	1	0	1	0	0	0
	800 ppm	0	0	1	0	0	0
	2000 ppm	0	0	0	0	0	0
TACHYPNEA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
BRADYPNEA	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 89

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	23	25	34	37	50	50	50	50	50	50	50	50	50	50
	800 ppm	38	42	48	48	50	50	50	50	50	50	50	50	50	50
	2000 ppm	44	48	49	49	48	48	48	48	48	48	48	48	48	48
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	2	0	1	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 90

Clinical sign	Group Name	Administration Week-day			18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
		15-7	16-7	17-7											
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	800 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	2000 ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	48
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 91

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	800 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	2000 ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	48
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 92

Clinical sign	Group Name	Administration Week-day				46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
		43-7	44-7	45-7												
DEEP BREATHING	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	50	50	50		50	50	50	50	50	50	50	50	50	50	50
	800 ppm	50	50	50		50	50	50	50	50	50	50	50	50	50	50
	2000 ppm	48	48	48		48	48	48	48	48	48	48	48	48	48	48
SMALL STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0		0	0	0	2	0	0	0	0	0	0	0
	800 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0		0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 93

Clinical sign	Group Name	Administration Week-day			60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
		57-7	58-7	59-7											
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	50	50	50	50	50	50	50	50	49	49	49	49	49	49
	800 ppm	50	50	49	49	49	49	49	49	49	48	48	48	47	47
	2000 ppm	48	48	47	47	47	46	46	46	45	45	45	45	45	45
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	1	0	0	0	1	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 94

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	49	49	47	48	47	46	46	46	46	45	44	44	43	42
	800 ppm	47	47	47	47	47	47	47	46	46	46	46	45	45	44
	2000 ppm	44	44	44	44	42	41	40	39	39	39	39	39	38	37
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2000 ppm	0	0	0	0	1	1	1	0	0	0	0	0	0	2
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	2	0	1	1	0	0	0	1	3	1	0
	800 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	2000 ppm	0	0	0	0	2	1	3	0	0	0	0	0	0	2

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 95

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	1	1	1	1	1	1	1	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	320 ppm	42	41	41	41	41	41	40	38	37	36	35	34	33	32
	800 ppm	43	43	43	43	41	40	40	39	38	38	38	38	37	35
	2000 ppm	36	36	34	33	33	32	31	29	28	28	28	28	27	26
SMALL STOOL	Control	0	0	0	0	0	0	1	1	1	0	0	0	0	0
	320 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	0
	800 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
OLIGO-STOOL	Control	0	2	2	0	0	2	1	0	1	0	0	0	0	0
	320 ppm	0	1	1	1	1	4	3	1	3	3	2	2	1	0
	800 ppm	0	1	1	1	0	1	1	0	0	0	0	0	0	0
	2000 ppm	1	1	1	2	2	1	0	0	0	0	0	0	0	0

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 96

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEEP BREATHING	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
ABNORMAL RESPIRA. SOUND	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0
	320 ppm	0	0	0	0	0	0
	800 ppm	0	0	0	0	0	0
	2000 ppm	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	0
	320 ppm	32	31	29	28	28	27
	800 ppm	35	35	34	31	29	28
	2000 ppm	24	24	23	23	23	23
SMALL STOOL	Control	0	0	0	0	1	1
	320 ppm	1	1	1	1	1	0
	800 ppm	0	0	0	0	1	1
	2000 ppm	0	0	0	0	0	0
OLIGO-STOOL	Control	1	1	1	2	3	2
	320 ppm	2	1	2	2	2	0
	800 ppm	0	1	2	0	1	1
	2000 ppm	1	0	0	0	1	0

APPENDIX B 1

BODY WEIGHT CHANGES :SUMMARY, MOUSE : MALE (2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration week						
	0	1	2	3	4	5	6
Control	23.0± 0.8	24.2± 1.0	25.0± 1.1	25.7± 1.3	26.9± 1.3	27.6± 1.5	28.6± 1.7
320 ppm	23.0± 0.8	24.0± 0.9	24.7± 1.0	25.3± 1.7	26.8± 1.4	27.5± 1.5	28.5± 1.6
800 ppm	23.0± 0.8	24.1± 0.9	25.1± 1.1	25.5± 1.2	26.7± 1.4	27.3± 2.1	28.5± 1.8
2000 ppm	23.0± 0.8	23.9± 0.9	24.7± 0.9	25.5± 1.5	26.7± 1.2	27.0± 2.5	28.2± 1.6

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration week						
	7	8	9	10	11	12	13
Control	29.1± 1.8	29.2± 2.0	30.5± 2.0	30.8± 2.1	32.1± 2.2	33.1± 2.3	33.9± 2.4
320 ppm	29.0± 1.9	29.3± 2.0	30.6± 2.2	30.8± 2.4	32.1± 2.3	32.8± 2.5	33.4± 2.6
800 ppm	28.9± 1.7	29.2± 1.9	30.6± 1.9	30.6± 2.1	31.8± 2.1	32.6± 2.3	33.0± 2.4
2000 ppm	28.7± 1.6	28.7± 1.8	30.2± 1.9	30.2± 1.9	31.3± 1.9	32.3± 2.0	32.6± 2.1*

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration week											
	14	18	22	26	30	34	38					
Control	34.9± 2.5	36.8± 2.9	39.7± 3.2	42.5± 3.6	44.9± 3.8	47.0± 3.9	48.9± 4.0					
320 ppm	34.5± 2.8	37.2± 3.6	40.4± 4.3	43.4± 4.6	45.3± 4.4	47.6± 4.5	49.8± 4.2					
800 ppm	33.7± 2.3*	36.6± 2.7	38.7± 3.1	41.7± 3.7	44.2± 3.9	46.4± 4.0	48.4± 4.1					
2000 ppm	33.3± 2.3**	35.5± 3.0	37.5± 3.4**	40.1± 3.9*	42.3± 4.6**	44.1± 5.0**	46.3± 5.3*					
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01												

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration week	42	46	50	54	58	62	66
Control		50.0± 3.6	51.4± 3.7	51.9± 3.8	53.2± 3.8	53.1± 3.9	53.2± 5.7	54.1± 3.9
320 ppm		51.3± 4.0	51.9± 4.5	52.9± 4.6	53.9± 4.5	53.9± 4.9	54.2± 5.5	54.9± 5.9
800 ppm		50.2± 4.1	51.4± 4.1	52.7± 4.3	54.1± 4.3	54.5± 5.2	55.9± 3.8*	56.4± 4.5*
2000 ppm		48.0± 5.4	49.8± 5.6	50.9± 5.8	52.2± 6.1	52.7± 6.1	52.5± 7.4	52.2± 8.6

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration week						
	70	74	78	82	86	90	94
Control	54.7± 5.1	55.0± 5.5	53.7± 6.8	54.1± 6.7	54.9± 6.3	54.4± 7.9	52.7± 8.4
320 ppm	55.6± 6.6	55.9± 6.0	55.2± 7.0	54.6± 6.8	54.7± 7.5	53.7± 8.7	53.4± 8.4
800 ppm	57.1± 6.7	56.4± 7.7	56.2± 7.6	55.2± 9.0	55.2± 7.9	53.1± 8.9	51.4± 8.6
2000 ppm	53.4± 7.7	51.5± 8.1	49.4± 7.7*	45.9± 7.2**	43.8± 6.2**	40.6± 6.2**	38.3± 5.6**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week		
	98	102	104
Control	54.1± 6.4	52.7± 7.1	52.4± 5.9
320 ppm	52.3± 8.7	51.1± 8.5	50.0± 8.6
800 ppm	48.0± 8.7*	45.5± 8.3**	44.8± 8.3**
2000 ppm	38.6± 4.7**	35.6± 3.7**	34.7± 3.4**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

APPENDIX B 2

BODY WEIGHT CHANGES : SUMMARY, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration week						
	0	1	2	3	4	5	6
Control	19.0± 0.8	19.7± 0.9	19.9± 1.0	20.8± 1.0	21.6± 1.2	21.6± 1.6	22.0± 1.2
320 ppm	19.0± 0.8	19.5± 0.8	19.7± 0.8	20.4± 1.2	21.3± 1.1	21.7± 1.2	21.8± 1.2
800 ppm	19.0± 0.8	19.5± 0.9	19.7± 0.8	20.6± 0.9	21.3± 0.9	21.6± 1.0	21.9± 1.2
2000 ppm	19.0± 0.8	19.3± 1.7	19.8± 1.1	20.6± 1.5	21.6± 1.2	21.9± 1.2	22.2± 1.1

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration week						
	7	8	9	10	11	12	13
Control	22.2± 1.3	22.8± 1.5	23.2± 1.4	23.0± 1.7	23.8± 1.7	24.3± 2.0	24.5± 1.9
320 ppm	22.3± 1.2	22.5± 1.3	23.3± 1.4	22.7± 1.6	23.8± 1.7	23.9± 1.8	24.2± 1.9
800 ppm	22.6± 1.4	22.6± 1.3	23.3± 1.5	22.9± 1.6	24.0± 1.6	23.6± 1.7	24.2± 1.6
2000 ppm	22.4± 1.2	23.0± 1.5	23.8± 1.5	23.4± 1.7	24.2± 1.7	24.4± 1.8	24.8± 2.1

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration week						
	14	18	22	26	30	34	38
Control	24.7± 2.1	27.6± 2.4	28.1± 3.1	30.2± 3.6	31.6± 3.9	33.6± 4.6	34.2± 4.9
320 ppm	24.5± 1.9	27.5± 1.9	27.8± 2.3	29.8± 3.1	30.7± 3.7	32.3± 3.6	33.6± 3.9
800 ppm	24.5± 1.7	27.7± 2.7	27.6± 2.8	29.7± 3.6	30.7± 4.0	32.3± 4.3	33.5± 4.6
2000 ppm	25.2± 1.9	27.5± 2.4	27.9± 2.9	29.6± 3.1	31.0± 4.0	32.4± 3.9	33.4± 4.1

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration week						
	42	46	50	54	58	62	66
Control	35.3± 5.0	36.4± 5.1	37.3± 5.5	38.3± 5.4	39.1± 5.7	39.8± 5.7	39.8± 5.7
320 ppm	34.8± 4.3	35.9± 4.7	36.7± 4.8	37.6± 4.9	38.5± 5.3	38.5± 5.7	38.8± 5.8
800 ppm	33.5± 4.6	34.7± 5.1	35.9± 5.4	36.9± 5.2	37.7± 5.2	38.5± 4.7	38.6± 5.0
2000 ppm	34.1± 4.3	35.5± 4.7	36.0± 4.5	36.5± 4.9	37.2± 5.5	37.6± 6.1	37.5± 5.8

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week						
	70	74	78	82	86	90	94
Control	40.1± 5.6	40.4± 5.5	40.5± 5.5	40.5± 5.5	40.8± 6.1	39.6± 6.2	39.9± 6.2
320 ppm	39.4± 6.0	38.3± 6.6	38.8± 6.3	39.8± 6.1	39.0± 6.1	37.9± 6.7	37.6± 6.7
800 ppm	39.8± 5.1	39.4± 5.0	39.4± 5.2	39.6± 5.3	39.7± 5.3	40.3± 5.5	39.2± 5.6
2000 ppm	38.2± 6.2	38.1± 5.6	38.3± 5.1	37.2± 5.2*	36.5± 6.6**	34.5± 4.7**	33.7± 3.9**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week		
	98	102	104
Control	39.3± 6.0	37.7± 6.7	37.3± 7.3
320 ppm	38.4± 5.9	37.5± 5.9	37.2± 5.4
800 ppm	38.1± 5.6	37.8± 4.9	36.4± 5.1
2000 ppm	32.5± 3.9**	31.2± 3.1**	31.0± 2.5**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

APPENDIX C 1

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : MALE (2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration 1-7(7)	week-day(effective) 2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	4.0± 0.2	3.8± 0.3	3.8± 0.4	4.0± 0.3	3.9± 0.4	4.0± 0.3	4.0± 0.4
320 ppm	4.0± 0.3	3.8± 0.3	3.7± 0.6	4.0± 0.4	3.9± 0.4	4.0± 0.3	4.0± 0.3
800 ppm	4.0± 0.3	3.8± 0.3	3.8± 0.3	3.8± 0.3	3.9± 0.5	3.9± 0.3	3.8± 0.4
2000 ppm	3.9± 0.3**	3.9± 0.4	3.8± 0.4	3.9± 0.3	3.8± 0.5	4.0± 0.5	3.9± 0.2

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration 8-7(7)	week-day(effective) 9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	14-7(7)
Control	4.1± 0.3	4.2± 0.3	4.3± 0.3	4.2± 0.3	4.2± 0.4	4.2± 0.4	4.3± 0.4
320 ppm	4.1± 0.3	4.2± 0.3	4.3± 0.4	4.1± 0.4	4.9± 0.8**	4.2± 0.3	4.3± 0.4
800 ppm	4.1± 0.3	4.1± 0.3	4.2± 0.2	4.1± 0.3	4.2± 0.3	4.0± 0.3**	4.2± 0.4
2000 ppm	4.0± 0.3	4.1± 0.3	4.2± 0.3	4.1± 0.3	4.1± 0.3	4.0± 0.3**	4.2± 0.3

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration 18-7(7)	week-day(effective) 22-7(7)	26-7(7)	30-7(7)	34-7(7)	38-7(7)	42-7(7)
Control	4.3± 0.4	4.4± 0.4	4.4± 0.4	4.6± 0.4	4.7± 0.4	4.6± 0.4	4.7± 0.3
320 ppm	4.4± 0.4	4.5± 0.3	4.4± 0.3	4.5± 0.4	4.7± 0.3	4.6± 0.3	4.6± 0.5
800 ppm	4.3± 0.3	4.3± 0.3	4.4± 0.4	4.4± 0.4	4.7± 0.4	4.7± 0.4	4.6± 0.4
2000 ppm	4.3± 0.3	4.4± 0.4	4.4± 0.3	4.3± 0.5*	4.6± 0.5	4.8± 0.5	4.9± 0.5

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration 46-7(7)	week-day(effective) 50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	4.7± 0.4	4.7± 0.3	4.8± 0.5	4.7± 0.5	4.8± 0.6	5.2± 0.4	4.9± 0.7
320 ppm	4.7± 0.4	4.8± 0.4	4.7± 0.3	4.8± 0.5	4.8± 0.8	5.1± 0.7	5.0± 0.7
800 ppm	4.7± 0.5	5.0± 0.5**	4.8± 0.4	4.9± 0.8	5.1± 0.5	5.3± 0.6	5.1± 0.6
2000 ppm	4.8± 0.5	5.0± 0.7*	4.9± 0.7	5.1± 0.8	5.2± 0.8**	5.3± 0.9	5.2± 0.8

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration 74-7(7)	week-day(effective) 78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)
Control	4.9± 0.5	4.8± 0.9	5.0± 0.5	5.1± 0.6	5.0± 0.5	4.7± 1.1	4.9± 0.5
320 ppm	5.1± 0.4	4.9± 0.8	4.8± 0.9	5.2± 0.9	5.1± 0.9	5.0± 0.8	4.8± 1.0
800 ppm	4.9± 0.6	5.1± 0.8	4.9± 1.2	5.1± 0.9	4.9± 0.5	4.9± 0.7	4.7± 1.2
2000 ppm	5.0± 0.8	5.1± 0.7	4.8± 1.2	5.0± 0.9	5.1± 0.9	5.2± 1.2	5.5± 0.9
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	5.0± 0.7	4.8± 0.8
320 ppm	4.9± 0.8	4.8± 0.9
800 ppm	5.0± 1.1	4.8± 0.7
2000 ppm	5.9± 1.2**	5.6± 1.2*

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

APPENDIX C 2

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration week-day(effective)						
	1-7(7)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	3.8± 0.5	3.5± 0.4	3.7± 0.4	3.6± 0.3	3.6± 0.4	3.8± 0.3	3.8± 0.3
320 ppm	3.7± 0.4	3.4± 0.3*	3.5± 0.4**	3.6± 0.4	3.6± 0.4	3.8± 0.4	3.9± 0.4
800 ppm	3.7± 0.3	3.4± 0.3	3.6± 0.3	3.6± 0.2	3.6± 0.2	3.8± 0.3	3.9± 0.3
2000 ppm	3.6± 0.6*	3.6± 0.6	3.6± 0.5	3.7± 0.5	3.8± 0.6	4.0± 0.6	3.9± 0.6
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 3

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective)													
	8-7 (7)		9-7 (7)		10-7 (7)		11-7 (7)		12-7 (7)		13-7 (7)		14-7 (7)	
Control	3.9±	0.3	4.0±	0.4	3.9±	0.4	4.0±	0.4	4.0±	0.4	4.1±	0.5	4.1±	0.4
320 ppm	3.9±	0.5	4.0±	0.5	4.0±	0.4	4.0±	0.4	4.1±	0.4	4.0±	0.5	4.0±	0.4
800 ppm	3.9±	0.4	4.0±	0.3	4.0±	0.5	4.0±	0.4	4.0±	0.4	4.0±	0.4	4.0±	0.4
2000 ppm	4.0±	0.5	4.2±	0.6	4.1±	0.7	4.1±	0.5	4.3±	0.9	4.2±	0.8	4.1±	0.8

Test of Dunnett

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration 18-7(7)	week-day(effective) 22-7(7)	26-7(7)	30-7(7)	34-7(7)	38-7(7)	42-7(7)
Control	4.2± 0.6	4.3± 0.6	4.3± 0.7	4.4± 0.6	4.7± 0.8	4.6± 0.7	4.7± 0.8
320 ppm	4.1± 0.5	4.2± 0.5	4.3± 0.5	4.1± 0.5	4.4± 0.7	4.6± 0.7	4.6± 0.7
800 ppm	4.3± 0.5	4.3± 0.5	4.4± 0.6	4.4± 0.6	4.5± 0.7	4.8± 0.8	4.7± 0.7
2000 ppm	4.3± 0.8	4.4± 0.9	4.5± 0.8	4.4± 0.7	4.6± 0.7	4.7± 0.8	4.9± 1.1

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration week-day(effective)						
	46-7(7)	50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	5.0± 0.8	4.7± 0.9	4.7± 0.8	4.6± 0.8	5.0± 0.9	5.0± 1.0	5.0± 0.8
320 ppm	4.9± 0.9	4.4± 0.7	4.6± 0.8	4.6± 0.7	4.6± 0.8	4.8± 0.7	5.0± 0.8
800 ppm	5.0± 0.9	5.0± 0.8	4.9± 0.8	4.7± 0.7	4.9± 0.6	5.0± 0.7	5.1± 0.7
2000 ppm	5.0± 0.8	4.8± 0.8	5.0± 1.1	4.9± 1.1	5.0± 1.0	5.1± 1.0	5.0± 0.9

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 104
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration week-day(effective)						
	74-7(7)	78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)
Control	5.0± 0.9	5.1± 0.9	4.9± 0.8	5.0± 1.2	4.7± 1.1	5.0± 0.9	5.0± 1.2
320 ppm	4.5± 1.1*	4.9± 1.0	4.5± 0.9	4.7± 1.1	4.6± 1.0	4.6± 1.1	4.9± 0.9
800 ppm	4.7± 0.7	4.9± 0.9	5.0± 0.9	5.0± 0.8	5.1± 1.0	4.9± 0.8	5.0± 0.8
2000 ppm	4.9± 0.9	5.2± 0.9	4.8± 0.8	5.0± 1.1	5.0± 0.9	5.2± 0.7	5.4± 1.0
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett							

(HAN260)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	4.9± 1.2	4.9± 1.1
320 ppm	4.8± 0.7	5.1± 1.1
800 ppm	5.2± 0.7	5.0± 1.2
2000 ppm	5.7± 0.8*	5.8± 0.5*

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HAN260)

BAIS 3

APPENDIX D 1

CHEMICAL INTAKE CHANGES : SUMMARY, MOUSE : MALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration (weeks)									
	1	2	3	4	5	6	7			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
320 ppm	0.053± 0.004	0.049± 0.004	0.047± 0.007	0.047± 0.004	0.045± 0.004	0.045± 0.004	0.045± 0.004	0.044± 0.004		
800 ppm	0.134± 0.009	0.120± 0.007	0.120± 0.008	0.115± 0.007	0.113± 0.012	0.111± 0.009	0.111± 0.009	0.106± 0.010		
2000 ppm	0.324± 0.026	0.315± 0.032	0.300± 0.026	0.292± 0.026	0.284± 0.026	0.283± 0.034	0.283± 0.034	0.272± 0.020		

(HAN300)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration (weeks)									
	8	9	10	11	12	13	14			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
320 ppm	0.045± 0.004	0.044± 0.004	0.045± 0.005	0.041± 0.004	0.048± 0.009	0.040± 0.003	0.040± 0.004			
800 ppm	0.113± 0.009	0.108± 0.008	0.109± 0.007	0.103± 0.008	0.103± 0.008	0.098± 0.009	0.101± 0.011			
2000 ppm	0.280± 0.021	0.273± 0.021	0.277± 0.022	0.264± 0.019	0.257± 0.020	0.247± 0.020	0.251± 0.019			

(HAN300)

BAIS 8

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

Group Name	Administration (weeks)									
	18	22	26	30	34	38	42			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
320 ppm	0.038± 0.003	0.036± 0.003	0.032± 0.003	0.032± 0.003	0.032± 0.003	0.030± 0.003	0.029± 0.003			
800 ppm	0.095± 0.009	0.089± 0.008	0.085± 0.009	0.080± 0.008	0.081± 0.008	0.078± 0.008	0.074± 0.007			
2000 ppm	0.243± 0.022	0.234± 0.019	0.220± 0.019	0.206± 0.019	0.212± 0.022	0.208± 0.022	0.204± 0.022			

(HAN300)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration (weeks)									
	46	50	54	58	62	66	70			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
320 ppm	0.029± 0.002	0.029± 0.002	0.028± 0.003	0.029± 0.003	0.028± 0.005	0.030± 0.004	0.029± 0.004			
800 ppm	0.073± 0.008	0.076± 0.008	0.071± 0.007	0.071± 0.012	0.073± 0.007	0.075± 0.007	0.072± 0.008			
2000 ppm	0.194± 0.020	0.197± 0.025	0.188± 0.022	0.194± 0.027	0.198± 0.032	0.204± 0.036	0.198± 0.040			

(HAN300)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 5

Group Name	Administration (weeks)									
	74	78	82	86	90	94	98			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
320 ppm	0.029± 0.003	0.028± 0.004	0.028± 0.005	0.031± 0.006	0.031± 0.007	0.030± 0.007	0.029± 0.007			
800 ppm	0.071± 0.011	0.074± 0.010	0.070± 0.018	0.076± 0.021	0.074± 0.016	0.077± 0.016	0.081± 0.026			
2000 ppm	0.195± 0.040	0.211± 0.051	0.217± 0.076	0.233± 0.053	0.250± 0.054	0.271± 0.071	0.291± 0.059			

(HAN300)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 104
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 6

Group Name	Administration (weeks)	
	102	104
Control	0.000± 0.000	0.000± 0.000
320 ppm	0.031± 0.007	0.031± 0.007
800 ppm	0.090± 0.026	0.086± 0.020
2000 ppm	0.337± 0.083	0.330± 0.079

(HAN300)

BAIS 3

APPENDIX D 2

CHEMICAL INTAKE CHANGES : SUMMARY, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g / kg / d a y
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 7

Group Name	Administration (weeks)									
	1	2	3	4	5	6	7			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
320 ppm	0.060± 0.006	0.055± 0.005	0.055± 0.005	0.055± 0.006	0.053± 0.007	0.056± 0.007	0.056± 0.007	0.056± 0.007		
800 ppm	0.154± 0.012	0.139± 0.013	0.140± 0.011	0.135± 0.009	0.133± 0.009	0.138± 0.011	0.140± 0.012	0.140± 0.012		
2000 ppm	0.369± 0.046	0.363± 0.055	0.352± 0.047	0.346± 0.039	0.351± 0.054	0.359± 0.053	0.349± 0.046	0.349± 0.046		

(HAN300)

BAIS 8

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 8

Group Name	Administration (weeks)									
	8	9	10	11	12	13	14			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
320 ppm	0.056± 0.008	0.056± 0.007	0.056± 0.006	0.054± 0.008	0.055± 0.007	0.053± 0.008	0.053± 0.007			
800 ppm	0.138± 0.014	0.138± 0.012	0.139± 0.017	0.135± 0.015	0.135± 0.016	0.133± 0.015	0.130± 0.013			
2000 ppm	0.350± 0.041	0.354± 0.045	0.352± 0.054	0.341± 0.034	0.353± 0.060	0.339± 0.052	0.323± 0.051			

(HAN300)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 9

Group Name	Administration (weeks)									
	18	22	26	30	34	38	42			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
320 ppm	0.048± 0.007	0.048± 0.007	0.046± 0.006	0.044± 0.006	0.044± 0.008	0.044± 0.009	0.043± 0.007			
800 ppm	0.124± 0.015	0.125± 0.015	0.120± 0.019	0.115± 0.019	0.114± 0.018	0.115± 0.023	0.115± 0.021			
2000 ppm	0.310± 0.047	0.317± 0.051	0.309± 0.050	0.289± 0.036	0.285± 0.043	0.282± 0.050	0.290± 0.063			

(HAN300)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 10

Group Name	Administration (weeks)									
	46	50	54	58	62	66	70			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
320 ppm	0.044± 0.008	0.038± 0.006	0.039± 0.006	0.039± 0.006	0.039± 0.007	0.040± 0.006	0.041± 0.006			
800 ppm	0.117± 0.023	0.113± 0.021	0.108± 0.020	0.100± 0.019	0.104± 0.018	0.105± 0.018	0.105± 0.018			
2000 ppm	0.285± 0.050	0.267± 0.048	0.273± 0.055	0.266± 0.053	0.269± 0.046	0.276± 0.049	0.265± 0.044			

(HAN300)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g/kg/day
 REPORT TYPE : A1 104
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 11

Group Name	Administration (weeks)									
	74	78	82	86	90	94	98			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
320 ppm	0.038± 0.008	0.041± 0.009	0.037± 0.007	0.039± 0.009	0.040± 0.010	0.040± 0.009	0.042± 0.008			
800 ppm	0.097± 0.017	0.101± 0.019	0.101± 0.018	0.101± 0.020	0.102± 0.024	0.100± 0.017	0.106± 0.023			
2000 ppm	0.261± 0.044	0.270± 0.041	0.257± 0.037	0.276± 0.061	0.289± 0.053	0.305± 0.047	0.337± 0.066			

(HAN300)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
UNIT : g/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 12

Group Name	Administration (weeks)	
	102	104
Control	0.000± 0.000	0.000± 0.000
320 ppm	0.042± 0.006	0.044± 0.009
800 ppm	0.112± 0.020	0.109± 0.023
2000 ppm	0.366± 0.057	0.373± 0.043

(HAN300)

BAIS 3

APPENDIX E 1

HEMATOLOGY : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	23	9.63±	1.48	13.2±	1.8	43.1±	5.0	45.3±	4.2	13.8±	0.8	30.6±	1.3	1785±	348
320 ppm	32	9.30±	1.67	13.0±	2.2	42.5±	6.8	46.2±	3.0	14.1±	0.7	30.5±	0.9	1620±	426
800 ppm	24	9.48±	1.60	13.2±	2.1	43.6±	6.7	46.1±	1.5*	14.0±	0.5	30.3±	1.0	1783±	518
2000 ppm	16	9.09±	1.64	12.6±	2.1	42.2±	6.1	46.8±	2.8*	13.8±	0.5	29.6±	1.2*	1749±	475

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	23	3.20±	1.78	2±	3	27±	12	1±	1	0±	0	4±	1	63±	14	2±	7
320 ppm	32	2.87±	1.21	3±	3	29±	12	1±	1	0±	0	4±	2	62±	14	1±	3
800 ppm	24	3.40±	1.52	3±	2	32±	13	0±	0*	0±	0	5±	2	59±	16	1±	2
2000 ppm	16	2.95±	1.38	3±	2	33±	11	0±	1	0±	0	5±	2	58±	11	1±	2

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 3

APPENDIX E 2

HEMATOLOGY : SUMMARY, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	23	9.12±	1.77	13.1±	2.0	42.8±	5.6	48.1±	7.6	14.6±	1.4	30.5±	1.5	1001±	446
320 ppm	26	9.39±	1.86	13.8±	2.3	45.2±	6.6	49.1±	6.1	14.8±	1.2	30.4±	1.4	1014±	467
800 ppm	27	9.39±	0.97	13.6±	1.5	44.1±	4.2	47.1±	1.5	14.4±	0.6	30.7±	1.0	956±	375
2000 ppm	22	10.44±	1.03**	14.8±	1.3**	48.8±	4.3**	46.8±	2.0	14.2±	0.6	30.4±	0.9	1277±	357

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	23	3.67±	3.61	2±	3	29±	15	1±	1	0±	0	4±	3	58±	18	6±	13
320 ppm	26	3.05±	3.24	2±	3	31±	18	1±	1	0±	0	5±	3	56±	21	5±	12
800 ppm	27	4.40±	6.24	2±	2	30±	18	1±	1	0±	0	5±	2	55±	21	7±	18
2000 ppm	22	3.56±	3.36	3±	2	31±	17	1±	1	0±	0	5±	2	60±	17	1±	1

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 3

APPENDIX F 1

BIOCHEMISTRY : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	24	5.3±	0.5	2.9±	0.3	1.2±	0.1	0.19±	0.30	196±	34	117±	34	44±	22
320 ppm	32	5.2±	0.6	2.8±	0.4	1.2±	0.1	0.14±	0.06	200±	48	153±	50*	52±	22
800 ppm	24	5.5±	0.7	3.0±	0.4	1.2±	0.1	0.19±	0.18	183±	58	202±	78**	41±	21
2000 ppm	16	5.8±	0.6*	3.1±	0.3	1.2±	0.2	0.30±	0.35**	152±	26**	219±	51**	25±	11**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		GOT IU/l		GPT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CPK IU/l	
Control	24	213±	54	159±	201	112±	149	1194±	3133	117±	27	3±	3	57±	21
320 ppm	32	270±	84	197±	509	225±	490	940±	2008	253±	356	6±	10	55±	36
800 ppm	24	363±	139**	287±	349**	353±	387**	2214±	4539*	766±	900**	7±	8	81±	82
2000 ppm	16	380±	95**	990±	2046**	1241±	2112**	9267±	19122**	891±	598**	22±	14**	137±	84**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	24	20.1±	2.7	153±	1	4.1±	0.2	120±	2	9.0±	0.5	6.5±	0.8
320 ppm	32	23.9±	15.4	153±	2	4.1±	0.6	121±	4	9.0±	0.6	6.9±	1.0
800 ppm	24	22.9±	5.6	153±	2	4.1±	0.4	120±	3	9.2±	0.6	7.1±	0.9
2000 ppm	16	21.7±	3.3	153±	1	4.5±	0.6	121±	3	9.5±	0.3**	7.3±	0.9*

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 3

APPENDIX F 2

BIOCHEMISTRY : SUMMARY, MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	23	4.9±	0.7	2.7±	0.3	1.3±	0.2	0.14±	0.04	161±	52	85±	72	32±	22
320 ppm	26	4.9±	0.6	2.7±	0.4	1.3±	0.2	0.21±	0.18	145±	59	88±	23	42±	33
800 ppm	27	5.0±	0.5	2.8±	0.3	1.3±	0.2	0.14±	0.05	162±	30	96±	24*	37±	17
2000 ppm	22	5.5±	0.8**	3.0±	0.4**	1.3±	0.2	0.23±	0.16**	140±	32*	194±	75**	27±	12

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		GOT IU/l		GPT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CPK IU/l	
Control	23	146±	77	96±	55	40±	21	366±	184	152±	63	3±	2	118±	163
320 ppm	26	157±	38	1244±	5547	595±	2558*	4245±	18679	218±	171	4±	5	124±	179
800 ppm	27	191±	42**	149±	83*	116±	49**	515±	419	305±	203**	4±	4	77±	64
2000 ppm	22	365±	138**	347±	242**	528±	439**	1796±	1592**	1164±	979**	27±	15**	150±	114**

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	23	18.2±	9.5	152±	1	4.1±	0.4	120±	2	9.2±	0.7	6.5±	1.2
320 ppm	26	18.1±	7.2	153±	4	4.3±	0.8	121±	5	9.0±	0.6	6.8±	1.9
800 ppm	27	16.0±	2.4	152±	2	4.1±	0.6	121±	3	9.2±	0.4	6.9±	1.4
2000 ppm	22	20.8±	4.2**	152±	2	4.3±	0.6	121±	3	9.4±	0.6	7.1±	1.2

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 3

APPENDIX G 1

URINALYSIS : SUMMARY, MOUSE : MALE

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Occult blood					CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	
Control	27	0	0	9	8	5	3	2		0	4	20	3	0	0		27	0	0	0	0	0		14	9	3	1	0	0		26	0	1	0	0	
320 ppm	35	0	3	8	16	7	1	0		0	9	21	3	2	0		35	0	0	0	0	0		23	9	3	0	0	0		31	1	1	2	0	
800 ppm	26	0	2	5	6	8	3	2		0	14	11	1	0	0	*	26	0	0	0	0	0		21	5	0	0	0	0		25	0	0	0	1	
2000 ppm	18	0	3	1	4	5	5	0	*	4	8	6	0	0	0	**	18	0	0	0	0	0		15	2	1	0	0	0		17	0	0	1	0	

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI
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Control	27	27 0 0 0 0
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320 ppm	35	35 0 0 0 0
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800 ppm	26	26 0 0 0 0
---------	----	------------

2000 ppm	18	18 0 0 0 0
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Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BAIS 3

APPENDIX G 2

URINALYSIS : SUMMARY, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Occult blood					CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	
Control	30	0	2	4	7	10	7	0		0	5	19	5	1	0		30	0	0	0	0	0		2	25	3	0	0	0		28	2	0	0	0	
320 ppm	28	0	4	4	9	5	5	1		0	6	18	3	1	0		28	0	0	0	0	0		1	21	6	0	0	0		22	1	0	2	3	
800 ppm	29	0	4	1	6	10	8	0		0	11	12	5	1	0		29	0	0	0	0	0		3	22	3	1	0	0		23	1	1	1	3	
2000 ppm	23	0	1	9	7	4	2	0		1	15	6	1	0	0	**	23	0	0	0	0	0		4	15	4	0	0	0		21	1	0	0	1	

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
MEASURE. TIME : 1
SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+ CHI
Control	30	30 0 0 0 0
320 ppm	28	28 0 0 0 0
800 ppm	29	28 1 0 0 0
2000 ppm	23	23 0 0 0 0

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of CHI SQUARE

(HCL101)

BAIS 3

APPENDIX H 1

GROSS FINDINGS : SUMMARY, MOUSE : MALE ALL ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			49 (%)	50 (%)	50 (%)	50 (%)
skin/app	nodule		1 (2)	0 (0)	0 (0)	0 (0)
	scab		0 (0)	0 (0)	0 (0)	2 (4)
subcutis	edema		1 (2)	1 (2)	0 (0)	0 (0)
	mass		5 (10)	2 (4)	4 (8)	1 (2)
lung	white zone		1 (2)	1 (2)	0 (0)	0 (0)
	red zone		0 (0)	0 (0)	0 (0)	2 (4)
	brown zone		0 (0)	1 (2)	0 (0)	0 (0)
	edema		0 (0)	1 (2)	0 (0)	0 (0)
	nodule		10 (20)	8 (16)	12 (24)	12 (24)
lymph node	enlarged		2 (4)	2 (4)	9 (18)	4 (8)
spleen	enlarged		1 (2)	4 (8)	1 (2)	4 (8)
	white zone		0 (0)	0 (0)	0 (0)	2 (4)
	red zone		1 (2)	0 (0)	0 (0)	0 (0)
	black zone		1 (2)	1 (2)	1 (2)	0 (0)
	nodule		3 (6)	5 (10)	3 (6)	1 (2)
	deformed		0 (0)	0 (0)	1 (2)	0 (0)
	accentuation of white pulp		1 (2)	4 (8)	1 (2)	2 (4)
heart	white zone		0 (0)	1 (2)	0 (0)	0 (0)
salivary gl	enlarged		0 (0)	1 (2)	0 (0)	0 (0)
	nodule		0 (0)	1 (2)	0 (0)	0 (0)
forestomach	nodule		0 (0)	0 (0)	2 (4)	2 (4)
	ulcer		0 (0)	1 (2)	0 (0)	1 (2)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			49 (%)	50 (%)	50 (%)	50 (%)
small intes	fluid:red		0 (0)	1 (2)	0 (0)	0 (0)
liver	enlarged		1 (2)	1 (2)	0 (0)	0 (0)
	white zone		3 (6)	4 (8)	0 (0)	1 (2)
	red zone		0 (0)	1 (2)	1 (2)	0 (0)
	yellow zone		0 (0)	1 (2)	0 (0)	0 (0)
	nodule		24 (49)	30 (60)	42 (84)	46 (92)
	cyst		0 (0)	0 (0)	0 (0)	2 (4)
	adhesion		0 (0)	0 (0)	0 (0)	1 (2)
pancreas	nodule		0 (0)	0 (0)	1 (2)	1 (2)
kidney	enlarged		0 (0)	2 (4)	0 (0)	0 (0)
	yellow zone		0 (0)	1 (2)	0 (0)	0 (0)
	nodule		1 (2)	0 (0)	0 (0)	1 (2)
	hydronephrosis		4 (8)	3 (6)	2 (4)	0 (0)
urin bladd	nodule		0 (0)	0 (0)	1 (2)	0 (0)
	urine:marked retention		4 (8)	3 (6)	1 (2)	0 (0)
	urine:red		0 (0)	0 (0)	0 (0)	1 (2)
testis	nodule		1 (2)	0 (0)	0 (0)	0 (0)
prep/cli gl	nodule		2 (4)	0 (0)	0 (0)	0 (0)
brain	swollen		0 (0)	0 (0)	1 (2)	0 (0)
periph nerv	nodule		0 (0)	0 (0)	0 (0)	1 (2)
eye	white		0 (0)	1 (2)	0 (0)	1 (2)
Harder gl	enlarged		0 (0)	0 (0)	0 (0)	2 (4)

STUDY NO. : 0329
 ANIMAL : MOUSE CrJ:BDF1
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			49 (%)	50 (%)	50 (%)	50 (%)
Harder gl	nodule		0 (0)	5 (10)	1 (2)	1 (2)
muscle	nodule		0 (0)	0 (0)	1 (2)	0 (0)
bone	nodule		0 (0)	0 (0)	1 (2)	0 (0)
	thick		0 (0)	1 (2)	0 (0)	0 (0)
pleura	nodule		1 (2)	0 (0)	1 (2)	0 (0)
mediastinum	nodule		0 (0)	1 (2)	0 (0)	0 (0)
	mass		0 (0)	0 (0)	1 (2)	0 (0)
peritoneum	nodule		0 (0)	0 (0)	0 (0)	1 (2)
	mass		0 (0)	1 (2)	0 (0)	0 (0)
retroperit	mass		0 (0)	0 (0)	0 (0)	1 (2)
abdominal c	hemorrhage		1 (2)	2 (4)	2 (4)	6 (12)
	ascites		0 (0)	2 (4)	1 (2)	2 (4)
mesenterium	mass		0 (0)	1 (2)	0 (0)	0 (0)
adipose	nodule		1 (2)	0 (0)	0 (0)	0 (0)
thoracic ca	hemorrhage		3 (6)	0 (0)	2 (4)	0 (0)
	pleural fluid		1 (2)	2 (4)	2 (4)	2 (4)
other	tail:nodule		1 (2)	0 (0)	0 (0)	0 (0)
	ear:nodule		1 (2)	0 (0)	0 (0)	0 (0)
	hindlimb:nodule		0 (0)	1 (2)	0 (0)	0 (0)
	lower jaw:nodule		1 (2)	0 (0)	0 (0)	0 (0)

APPENDIX H 2

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE ALL ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			50 (%)	50 (%)	50 (%)	50 (%)
skin/app	nodule		1 (2)	0 (0)	1 (2)	0 (0)
	scab		0 (0)	0 (0)	1 (2)	0 (0)
subcutis	edema		4 (8)	4 (8)	4 (8)	2 (4)
	mass		4 (8)	3 (6)	2 (4)	3 (6)
lung	red		1 (2)	0 (0)	0 (0)	0 (0)
	red zone		1 (2)	1 (2)	1 (2)	2 (4)
	edema		0 (0)	1 (2)	0 (0)	1 (2)
	nodule		3 (6)	1 (2)	3 (6)	1 (2)
lymph node	enlarged		8 (16)	12 (24)	6 (12)	8 (16)
spleen	enlarged		10 (20)	9 (18)	5 (10)	8 (16)
	black zone		1 (2)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	3 (6)	1 (2)
	deformed		1 (2)	0 (0)	0 (0)	0 (0)
	accentuation of white pulp		1 (2)	2 (4)	2 (4)	0 (0)
heart	white zone		0 (0)	1 (2)	1 (2)	0 (0)
	deformed		0 (0)	0 (0)	0 (0)	1 (2)
forestomach	nodule		0 (0)	1 (2)	0 (0)	2 (4)
small intes	dilated		0 (0)	1 (2)	0 (0)	0 (0)
	torsion		0 (0)	2 (4)	0 (0)	0 (0)
liver	enlarged		4 (8)	4 (8)	3 (6)	4 (8)
	pale		0 (0)	0 (0)	0 (0)	1 (2)
	white patch		0 (0)	0 (0)	1 (2)	0 (0)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control	320 ppm		800 ppm		2000 ppm	
			50 (%)	50 (%)	(%)	50 (%)	(%)	50 (%)	(%)
liver	white zone		3 (6)	5 (10)		2 (4)		3 (6)	
	red zone		3 (6)	1 (2)		0 (0)		0 (0)	
	nodule		5 (10)	9 (18)		27 (54)		40 (80)	
	rough		1 (2)	0 (0)		0 (0)		0 (0)	
	adhesion		0 (0)	0 (0)		1 (2)		0 (0)	
gall bladd	dilated		0 (0)	1 (2)		1 (2)		1 (2)	
pancreas	nodule		0 (0)	0 (0)		1 (2)		0 (0)	
kidney	enlarged		0 (0)	1 (2)		0 (0)		0 (0)	
	nodule		0 (0)	0 (0)		1 (2)		0 (0)	
	cyst		0 (0)	0 (0)		1 (2)		0 (0)	
	hydronephrosis		1 (2)	1 (2)		0 (0)		0 (0)	
urin bladd	red zone		0 (0)	0 (0)		0 (0)		1 (2)	
	urine:marked retention		0 (0)	0 (0)		1 (2)		0 (0)	
pituitary	enlarged		3 (6)	0 (0)		1 (2)		0 (0)	
	yellow		0 (0)	0 (0)		0 (0)		1 (2)	
	nodule		1 (2)	0 (0)		0 (0)		1 (2)	
adrenal	enlarged		0 (0)	0 (0)		1 (2)		0 (0)	
ovary	enlarged		5 (10)	4 (8)		2 (4)		5 (10)	
	nodule		1 (2)	0 (0)		0 (0)		0 (0)	
	cyst		6 (12)	6 (12)		5 (10)		5 (10)	
uterus	enlarged		1 (2)	2 (4)		1 (2)		0 (0)	
	nodule		8 (16)	4 (8)		9 (18)		6 (12)	

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			50 (%)	50 (%)	50 (%)	50 (%)
uterus	cyst		0 (0)	1 (2)	0 (0)	0 (0)
	nodular		0 (0)	1 (2)	1 (2)	1 (2)
brain	red zone		1 (2)	0 (0)	0 (0)	0 (0)
	hemorrhage		0 (0)	0 (0)	0 (0)	2 (4)
	mass		0 (0)	0 (0)	0 (0)	1 (2)
spinal cord	nodule		0 (0)	0 (0)	0 (0)	1 (2)
periph nerv	enlarged		0 (0)	0 (0)	0 (0)	1 (2)
eye	white		1 (2)	0 (0)	0 (0)	0 (0)
Harder gl	nodule		1 (2)	0 (0)	0 (0)	0 (0)
bone	nodule		1 (2)	0 (0)	0 (0)	0 (0)
	thick		0 (0)	0 (0)	1 (2)	0 (0)
pleura	white		1 (2)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	2 (4)	0 (0)	0 (0)
	thick		0 (0)	1 (2)	0 (0)	0 (0)
mediastinum	mass		4 (8)	2 (4)	3 (6)	1 (2)
peritoneum	nodule		0 (0)	0 (0)	1 (2)	1 (2)
	mass		1 (2)	0 (0)	0 (0)	0 (0)
	thick		2 (4)	0 (0)	1 (2)	1 (2)
retroperit	mass		2 (4)	0 (0)	0 (0)	1 (2)
	cyst		1 (2)	0 (0)	0 (0)	0 (0)
abdominal c	hemorrhage		1 (2)	1 (2)	1 (2)	0 (0)
	ascites		7 (14)	6 (12)	7 (14)	5 (10)

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name	Control		320 ppm		800 ppm		2000 ppm	
		NO. of Animals	50	(%)	50	(%)	50	(%)	50	(%)
thoracic ca	hemorrhage		1	(2)	0	(0)	0	(0)	0	(0)
	pleural fluid		11	(22)	8	(16)	13	(26)	5	(10)
other	hindlimb:nodule		1	(2)	0	(0)	0	(0)	0	(0)

(HPT080)

BAIS 3

APPENDIX H 3

GROSS FINDINGS : SUMMARY, MOUSE : MALE SACRIFICED ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			27 (%)	35 (%)	26 (%)	18 (%)
skin/app	scab		0 (0)	0 (0)	0 (0)	1 (6)
subcutis	mass		1 (4)	2 (6)	2 (8)	0 (0)
lung	white zone		1 (4)	0 (0)	0 (0)	0 (0)
	nodule		6 (22)	6 (17)	4 (15)	6 (33)
lymph node	enlarged		1 (4)	1 (3)	6 (23)	1 (6)
spleen	enlarged		1 (4)	2 (6)	0 (0)	1 (6)
	black zone		1 (4)	0 (0)	0 (0)	0 (0)
	nodule		2 (7)	5 (14)	2 (8)	0 (0)
	deformed		0 (0)	0 (0)	1 (4)	0 (0)
	accentuation of white pulp		1 (4)	4 (11)	1 (4)	2 (11)
salivary gl	enlarged		0 (0)	1 (3)	0 (0)	0 (0)
forestomach	nodule		0 (0)	0 (0)	1 (4)	2 (11)
liver	enlarged		0 (0)	1 (3)	0 (0)	0 (0)
	white zone		0 (0)	3 (9)	0 (0)	0 (0)
	red zone		0 (0)	0 (0)	1 (4)	0 (0)
	nodule		16 (59)	21 (60)	24 (92)	18 (100)
kidney	enlarged		0 (0)	1 (3)	0 (0)	0 (0)
	yellow zone		0 (0)	1 (3)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (6)
urin bladd	urine:marked retention		0 (0)	0 (0)	1 (4)	0 (0)
testis	nodule		1 (4)	0 (0)	0 (0)	0 (0)
prep/cli gl	nodule		1 (4)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (105#)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control		320 ppm		800 ppm		2000 ppm	
			27	(%)	35	(%)	26	(%)	18	(%)
eye	white		0	(0)	1	(3)	0	(0)	1	(6)
Harder gl	nodule		0	(0)	5	(14)	0	(0)	1	(6)
peritoneum	mass		0	(0)	1	(3)	0	(0)	0	(0)
mesenterium	mass		0	(0)	1	(3)	0	(0)	0	(0)
adipose	nodule		1	(4)	0	(0)	0	(0)	0	(0)
other	ear:nodule		1	(4)	0	(0)	0	(0)	0	(0)
	hindlimb:nodule		0	(0)	1	(3)	0	(0)	0	(0)

(HPT080)

BAIS 3

APPENDIX H 4

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE SACRIFICED ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			30 (%)	28 (%)	29 (%)	24 (%)
subcutis	edema		1 (3)	0 (0)	0 (0)	0 (0)
	mass		2 (7)	2 (7)	1 (3)	1 (4)
lung	red zone		1 (3)	0 (0)	0 (0)	0 (0)
	nodule		1 (3)	1 (4)	1 (3)	0 (0)
lymph node	enlarged		3 (10)	5 (18)	3 (10)	1 (4)
spleen	enlarged		4 (13)	2 (7)	3 (10)	0 (0)
	nodule		0 (0)	0 (0)	2 (7)	0 (0)
	accentuation of white pulp		1 (3)	2 (7)	2 (7)	0 (0)
forestomach	nodule		0 (0)	0 (0)	0 (0)	1 (4)
liver	enlarged		1 (3)	0 (0)	0 (0)	2 (8)
	white patch		0 (0)	0 (0)	1 (3)	0 (0)
	white zone		1 (3)	1 (4)	0 (0)	0 (0)
	red zone		2 (7)	0 (0)	0 (0)	0 (0)
	nodule		4 (13)	6 (21)	17 (59)	24 (100)
gall bladd	dilated		0 (0)	1 (4)	0 (0)	1 (4)
pancreas	nodule		0 (0)	0 (0)	1 (3)	0 (0)
kidney	enlarged		0 (0)	1 (4)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	1 (3)	0 (0)
	hydronephrosis		1 (3)	0 (0)	0 (0)	0 (0)
urin bladd	red zone		0 (0)	0 (0)	0 (0)	1 (4)
pituitary	enlarged		3 (10)	0 (0)	1 (3)	0 (0)
	nodule		0 (0)	0 (0)	0 (0)	1 (4)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control 30 (%)	320 ppm 28 (%)	800 ppm 29 (%)	2000 ppm 24 (%)
ovary	enlarged		3 (10)	1 (4)	0 (0)	1 (4)
	nodule		1 (3)	0 (0)	0 (0)	0 (0)
	cyst		5 (17)	3 (11)	4 (14)	1 (4)
uterus	enlarged		1 (3)	2 (7)	1 (3)	0 (0)
	nodule		3 (10)	1 (4)	4 (14)	2 (8)
	cyst		0 (0)	1 (4)	0 (0)	0 (0)
	nodular		0 (0)	1 (4)	1 (3)	1 (4)
eye	white		1 (3)	0 (0)	0 (0)	0 (0)
Harder gl	nodule		1 (3)	0 (0)	0 (0)	0 (0)
bone	thick		0 (0)	0 (0)	1 (3)	0 (0)
pleura	white		1 (3)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	2 (7)	0 (0)	0 (0)
mediastinum	mass		0 (0)	1 (4)	1 (3)	0 (0)
peritoneum	nodule		0 (0)	0 (0)	0 (0)	1 (4)
retroperit	mass		1 (3)	0 (0)	0 (0)	0 (0)
	cyst		1 (3)	0 (0)	0 (0)	0 (0)
abdominal c	ascites		1 (3)	2 (7)	1 (3)	1 (4)
thoracic ca	pleural fluid		1 (3)	1 (4)	4 (14)	0 (0)
other	hindlimb:nodule		1 (3)	0 (0)	0 (0)	0 (0)

APPENDIX H 5

GROSS FINDINGS : SUMMARY, MOUSE : MALE DEAD AND MORIBUND ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control 22 (%)	320 ppm 15 (%)	800 ppm 24 (%)	2000 ppm 32 (%)
skin/app	nodule		1 (5)	0 (0)	0 (0)	0 (0)
	scab		0 (0)	0 (0)	0 (0)	1 (3)
subcutis	edema		1 (5)	1 (7)	0 (0)	0 (0)
	mass		4 (18)	0 (0)	2 (8)	1 (3)
lung	white zone		0 (0)	1 (7)	0 (0)	0 (0)
	red zone		0 (0)	0 (0)	0 (0)	2 (6)
	brown zone		0 (0)	1 (7)	0 (0)	0 (0)
	edema		0 (0)	1 (7)	0 (0)	0 (0)
	nodule		4 (18)	2 (13)	8 (33)	6 (19)
lymph node	enlarged		1 (5)	1 (7)	3 (13)	3 (9)
spleen	enlarged		0 (0)	2 (13)	1 (4)	3 (9)
	white zone		0 (0)	0 (0)	0 (0)	2 (6)
	red zone		1 (5)	0 (0)	0 (0)	0 (0)
	black zone		0 (0)	1 (7)	1 (4)	0 (0)
	nodule		1 (5)	0 (0)	1 (4)	1 (3)
heart	white zone		0 (0)	1 (7)	0 (0)	0 (0)
salivary gl	nodule		0 (0)	1 (7)	0 (0)	0 (0)
forestomach	nodule		0 (0)	0 (0)	1 (4)	0 (0)
	ulcer		0 (0)	1 (7)	0 (0)	1 (3)
small intes	fluid:red		0 (0)	1 (7)	0 (0)	0 (0)
liver	enlarged		1 (5)	0 (0)	0 (0)	0 (0)
	white zone		3 (14)	1 (7)	0 (0)	1 (3)

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			22 (%)	15 (%)	24 (%)	32 (%)
liver	red zone		0 (0)	1 (7)	0 (0)	0 (0)
	yellow zone		0 (0)	1 (7)	0 (0)	0 (0)
	nodule		8 (36)	9 (60)	18 (75)	28 (88)
	cyst		0 (0)	0 (0)	0 (0)	2 (6)
	adhesion		0 (0)	0 (0)	0 (0)	1 (3)
pancreas	nodule		0 (0)	0 (0)	1 (4)	1 (3)
kidney	enlarged		0 (0)	1 (7)	0 (0)	0 (0)
	nodule		1 (5)	0 (0)	0 (0)	0 (0)
	hydronephrosis		4 (18)	3 (20)	2 (8)	0 (0)
urin bladd	nodule		0 (0)	0 (0)	1 (4)	0 (0)
	urine:marked retention		4 (18)	3 (20)	0 (0)	0 (0)
	urine:red		0 (0)	0 (0)	0 (0)	1 (3)
prep/cli gl	nodule		1 (5)	0 (0)	0 (0)	0 (0)
brain	swollen		0 (0)	0 (0)	1 (4)	0 (0)
periph nerv	nodule		0 (0)	0 (0)	0 (0)	1 (3)
Harder gl	enlarged		0 (0)	0 (0)	0 (0)	2 (6)
	nodule		0 (0)	0 (0)	1 (4)	0 (0)
muscle	nodule		0 (0)	0 (0)	1 (4)	0 (0)
bone	nodule		0 (0)	0 (0)	1 (4)	0 (0)
	thick		0 (0)	1 (7)	0 (0)	0 (0)
pleura	nodule		1 (5)	0 (0)	1 (4)	0 (0)
mediastinum	nodule		0 (0)	1 (7)	0 (0)	0 (0)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

GROSS FINDINGS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			22 (%)	15 (%)	24 (%)	32 (%)
mediastinum	mass		0 (0)	0 (0)	1 (4)	0 (0)
peritoneum	nodule		0 (0)	0 (0)	0 (0)	1 (3)
retroperit	mass		0 (0)	0 (0)	0 (0)	1 (3)
abdominal c	hemorrhage		1 (5)	2 (13)	2 (8)	6 (19)
	ascites		0 (0)	2 (13)	1 (4)	2 (6)
thoracic ca	hemorrhage		3 (14)	0 (0)	2 (8)	0 (0)
	pleural fluid		1 (5)	2 (13)	2 (8)	2 (6)
other	tail:nodule		1 (5)	0 (0)	0 (0)	0 (0)
	lower jaw:nodule		1 (5)	0 (0)	0 (0)	0 (0)

APPENDIX H 6

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE DEAD AND MORIBUND ANIMALS
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			20 (%)	22 (%)	21 (%)	26 (%)
skin/app	nodule		1 (5)	0 (0)	1 (5)	0 (0)
	scab		0 (0)	0 (0)	1 (5)	0 (0)
subcutis	edema		3 (15)	4 (18)	4 (19)	2 (8)
	mass		2 (10)	1 (5)	1 (5)	2 (8)
lung	red		1 (5)	0 (0)	0 (0)	0 (0)
	red zone		0 (0)	1 (5)	1 (5)	2 (8)
	edema		0 (0)	1 (5)	0 (0)	1 (4)
	nodule		2 (10)	0 (0)	2 (10)	1 (4)
lymph node	enlarged		5 (25)	7 (32)	3 (14)	7 (27)
spleen	enlarged		6 (30)	7 (32)	2 (10)	8 (31)
	black zone		1 (5)	0 (0)	0 (0)	0 (0)
	nodule		0 (0)	0 (0)	1 (5)	1 (4)
	deformed		1 (5)	0 (0)	0 (0)	0 (0)
heart	white zone		0 (0)	1 (5)	1 (5)	0 (0)
	deformed		0 (0)	0 (0)	0 (0)	1 (4)
forestomach	nodule		0 (0)	1 (5)	0 (0)	1 (4)
small intes	dilated		0 (0)	1 (5)	0 (0)	0 (0)
	torsion		0 (0)	2 (9)	0 (0)	0 (0)
liver	enlarged		3 (15)	4 (18)	3 (14)	2 (8)
	pale		0 (0)	0 (0)	0 (0)	1 (4)
	white zone		2 (10)	4 (18)	2 (10)	3 (12)
	red zone		1 (5)	1 (5)	0 (0)	0 (0)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name	Control	320 ppm	800 ppm	2000 ppm
		NO. of Animals	20 (%)	22 (%)	21 (%)	26 (%)
liver	nodule		1 (5)	3 (14)	10 (48)	16 (62)
	rough		1 (5)	0 (0)	0 (0)	0 (0)
	adhesion		0 (0)	0 (0)	1 (5)	0 (0)
gall bladd	dilated		0 (0)	0 (0)	1 (5)	0 (0)
kidney	cyst		0 (0)	0 (0)	1 (5)	0 (0)
	hydronephrosis		0 (0)	1 (5)	0 (0)	0 (0)
urin bladd	urine:marked retention		0 (0)	0 (0)	1 (5)	0 (0)
pituitary	yellow		0 (0)	0 (0)	0 (0)	1 (4)
	nodule		1 (5)	0 (0)	0 (0)	0 (0)
adrenal	enlarged		0 (0)	0 (0)	1 (5)	0 (0)
ovary	enlarged		2 (10)	3 (14)	2 (10)	4 (15)
	cyst		1 (5)	3 (14)	1 (5)	4 (15)
uterus	nodule		5 (25)	3 (14)	5 (24)	4 (15)
brain	red zone		1 (5)	0 (0)	0 (0)	0 (0)
	hemorrhage		0 (0)	0 (0)	0 (0)	2 (8)
	mass		0 (0)	0 (0)	0 (0)	1 (4)
spinal cord	nodule		0 (0)	0 (0)	0 (0)	1 (4)
periph nerv	enlarged		0 (0)	0 (0)	0 (0)	1 (4)
bone	nodule		1 (5)	0 (0)	0 (0)	0 (0)
pleura	thick		0 (0)	1 (5)	0 (0)	0 (0)
mediastinum	mass		4 (20)	1 (5)	2 (10)	1 (4)
peritoneum	nodule		0 (0)	0 (0)	1 (5)	0 (0)

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name NO. of Animals	Control	320 ppm	800 ppm	2000 ppm
			20 (%)	22 (%)	21 (%)	25 (%)
peritoneum	mass		1 (5)	0 (0)	0 (0)	0 (0)
	thick		2 (10)	0 (0)	1 (5)	1 (4)
retroperit	mass		1 (5)	0 (0)	0 (0)	1 (4)
abdominal c	hemorrhage		1 (5)	1 (5)	1 (5)	0 (0)
	ascites		6 (30)	4 (18)	6 (29)	4 (15)
thoracic ca	hemorrhage		1 (5)	0 (0)	0 (0)	0 (0)
	pleural fluid		10 (50)	7 (32)	9 (43)	5 (19)

(HPTC80)

BAIS 3

APPENDIX I 1

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : MALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	Body Weight	ADRENALS		TESTES		HEART		LUNGS		KIDNEYS	
Control	27	48.8± 6.1	0.014±	0.005	0.225±	0.039	0.234±	0.035	0.238±	0.090	0.612±	0.049
320 ppm	35	46.8± 8.4	0.013±	0.003	0.215±	0.046	0.234±	0.039	0.275±	0.186	0.667±	0.230
800 ppm	26	41.4± 8.4**	0.013±	0.003	0.215±	0.038	0.237±	0.037	0.251±	0.097	0.649±	0.076
2000 ppm	18	32.0± 3.0**	0.011±	0.003	0.205±	0.028	0.219±	0.042	0.250±	0.085	0.675±	0.150

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL040)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	27	0.127±	0.144	2.168±	1.533	0.458±	0.015
320 ppm	35	0.154±	0.181	2.420±	1.014	0.454±	0.015
800 ppm	26	0.164±	0.193	3.467±	1.436**	0.448±	0.013*
2000 ppm	18	0.184±	0.161	5.722±	1.957**	0.443±	0.011**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL040)

BAIS 3

APPENDIX I 2

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	Body Weight	ADRENALS		OVARIES		HEART		LUNGS		KIDNEYS	
Control	30	34.5± 7.2	0.015±	0.003	0.224±	0.577	0.186±	0.031	0.221±	0.063	0.479±	0.169
320 ppm	27	34.7± 5.6	0.017±	0.005	0.085±	0.069	0.180±	0.023	0.213±	0.029	0.484±	0.167
800 ppm	28	33.8± 5.1	0.016±	0.003	0.070±	0.041	0.179±	0.019	0.221±	0.037	0.459±	0.057
2000 ppm	23	28.6± 2.9**	0.014±	0.005	0.053±	0.061*	0.176±	0.020	0.203±	0.025	0.488±	0.103

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL040)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	30	0.241±	0.299	1.625±	0.820	0.469±	0.017
320 ppm	27	0.223±	0.305	1.511±	0.356	0.469±	0.014
800 ppm	28	0.299±	0.400	2.028±	0.518**	0.467±	0.017
2000 ppm	23	0.134±	0.087	4.251±	1.538**	0.451±	0.015**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL040)

BAIS 3

APPENDIX J 1

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : MALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	27	48.8± 6.1	0.030± 0.009	0.470± 0.102	0.485± 0.089	0.490± 0.153	1.274± 0.191
320 ppm	35	46.8± 8.4	0.029± 0.008	0.469± 0.116	0.510± 0.095	0.630± 0.605	1.498± 0.837
800 ppm	26	41.4± 8.4**	0.032± 0.007	0.533± 0.109	0.591± 0.135**	0.633± 0.292*	1.602± 0.230**
2000 ppm	18	32.0± 3.0**	0.036± 0.009	0.644± 0.075**	0.692± 0.170**	0.785± 0.257**	2.152± 0.667**

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL042)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	27	0.281± 0.349	4.713± 4.288	0.954± 0.135
320 ppm	35	0.355± 0.455	5.465± 3.197	1.002± 0.196
800 ppm	26	0.424± 0.541	8.976± 4.789**	1.121± 0.210**
2000 ppm	18	0.594± 0.532	17.918± 5.911**	1.397± 0.134**

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL042)

BAIS 3

APPENDIX J 2

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : FEMALE

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	30	34.5± 7.2	0.045± 0.009	0.625± 1.634	0.558± 0.138	0.669± 0.235	1.433± 0.522
320 ppm	27	34.7± 5.6	0.050± 0.014	0.243± 0.191	0.529± 0.104	0.631± 0.149	1.430± 0.533
800 ppm	28	33.8± 5.1	0.048± 0.010	0.211± 0.130	0.545± 0.118	0.673± 0.179	1.377± 0.179
2000 ppm	23	28.6± 2.9**	0.048± 0.013	0.175± 0.169	0.620± 0.091	0.714± 0.098*	1.712± 0.352**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL042)

BAIS 3

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	30	0.722± 0.953	4.801± 2.414	1.441± 0.438
320 ppm	27	0.662± 0.853	4.437± 1.130	1.385± 0.226
800 ppm	28	0.923± 1.290	6.152± 1.882**	1.413± 0.219
2000 ppm	23	0.463± 0.286	15.195± 6.151**	1.590± 0.151**

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

(HCL042)

BAIS 3

APPENDIX K 1

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study Grade	Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<49>				<50>				<50>				<50>			
	ulcer		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	
	hyperplasia:epidermis		0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)		
	epidermal cyst		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
subcutis			<49>				<50>				<50>				<50>			
	xanthogranuloma		0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	
			(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
{Respiratory system}																		
nasal cavit			<49>				<50>				<50>				<50>			
	exudate		2	2	0	0	2	5	0	0	0	4	0	0	1	3	0	0
			(4)	(4)	(0)	(0)	(4)	(10)	(0)	(0)	(0)	(8)	(0)	(0)	(2)	(6)	(0)	(0)
	mineralization		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 2

Organ_____	Findings_____	Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	49				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<49>				<50>				<50>				<50>			
	exudate:neutrophil leukocyte		0	4	0	0	2	1	0	0	1	0	0	0	0	1	0	0
			(0)	(8)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(2)	(0)
	eosinophilic change:olfactory epithelium		4	0	0	0	11	1	0	0	15	1	0	0 *	7	0	0	0
			(8)	(0)	(0)	(0)	(22)	(2)	(0)	(0)	(30)	(2)	(0)	(0)	(14)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		14	2	0	0	17	5	0	0	10	8	0	0	9	7	0	0
			(28)	(4)	(0)	(0)	(34)	(10)	(0)	(0)	(20)	(16)	(0)	(0)	(18)	(14)	(0)	(0)
inflammation:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
respiratory metaplasia:olfactory epithelium		7	1	0	0	10	2	0	0	13	0	0	0	9	2	0	0	
		(14)	(2)	(0)	(0)	(20)	(4)	(0)	(0)	(26)	(0)	(0)	(0)	(18)	(4)	(0)	(0)	
respiratory metaplasia:gland		15	7	0	0	10	12	0	0	13	2	0	0	8	4	0	0	
		(31)	(14)	(0)	(0)	(20)	(24)	(0)	(0)	(26)	(4)	(0)	(0)	(16)	(8)	(0)	(0)	
necrosis:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	
lung			<49>				<50>				<50>				<50>			
	congestion		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

Organ	Findings	Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	49				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung	hemorrhage		0	0	0	0	2	0	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)
	edema		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	thrombus		0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(2)	(0)
	inflammatory infiltration		1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	perivascular inflammation		0	0	0	0	2	0	0	0	3	1	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	(2)	(2)	(0)	(0)
	accumulation of foamy cells		0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow	myelofibrosis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade				Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																					
bone marrow		<49>				<50>				<50>				<50>				<50>			
	erythropoiesis:increased	6	1	0	0	6	1	0	0	11	3	0	0	16	7	0	0	16	7	0	0 **
		(12)	(2)	(0)	(0)	(12)	(2)	(0)	(0)	(22)	(6)	(0)	(0)	(32)	(14)	(0)	(0)	(32)	(14)	(0)	(0)
	granulopoiesis:increased	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia:vascular	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node		<49>				<50>				<50>				<50>				<50>			
	lymphadenitis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen		<49>				<50>				<50>				<50>				<50>			
	atrophy	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	deposit of hemosiderin	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	deposit of melanin	1	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 5

		Group Name No. of Animals on Study Grade	Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
Organ	Findings		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Hematopoietic system}																		
spleen			<49>				<50>				<50>				<50>			
	extramedullary hematopoiesis		7 (14)	8 (16)	1 (2)	0 (0)	3 (6)	7 (14)	3 (6)	0 (0)	7 (14)	8 (16)	1 (2)	0 (0)	7 (14)	15 (30)	5 (10)	0 (0)
	hyperplasia:vascular		2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	follicular hyperplasia		2 (4)	1 (2)	0 (0)	0 (0)	7 (14)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)
{Circulatory system}																		
heart			<49>				<50>				<50>				<50>			
	thrombus		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	necrosis:zonal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
	mineralization		3 (6)	1 (2)	0 (0)	0 (0)	5 (10)	1 (2)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)	0 (0)	6 (12)	1 (2)	0 (0)	0 (0)
	myocardial fibrosis		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 6

		Group Name No. of Animals on Study Grade				Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
Organ	Findings	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)				
{Circulatory system}																					
heart	arteritis	<49>				<50>				<50>				<50>							
		1	1	0	0	2	0	0	0	1	0	0	0	0	0	0	0				
		(2)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
artery/aort	arteritis	<49>				<50>				<50>				<50>							
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0				
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
{Digestive system}																					
tooth	cyst	<49>				<50>				<50>				<50>							
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
	dysplasia	14	16	3	0	17	7	7	0	20	4	2	0 *	23	2	2	0 **				
		(29)	(33)	(6)	(0)	(34)	(14)	(14)	(0)	(40)	(8)	(4)	(0)	(46)	(4)	(4)	(0)				
tongue	erosion	<49>				<50>				<50>				<50>							
		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0				
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
	arteritis	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0				
		(2)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe																					
< a >		a : Number of animals examined at the site																			
b		b : Number of animals with lesion																			
(c)		c : b / a * 100																			
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																					

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade	Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
salivary gl	atrophy		<49>				<50>				<50>				<50>			
			0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		22	0	0	0	31	0	0	0	29	0	0	0	20	1	0	0
			(45)	(0)	(0)	(0)	(62)	(0)	(0)	(0)	(58)	(0)	(0)	(0)	(40)	(2)	(0)	(0)
	xanthogranuloma		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach	erosion:forestomach		<49>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:forestomach		0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		1	1	0	0	1	0	0	0	2	2	0	0	2	1	0	0
			(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(4)	(2)	(0)	(0)
	erosion:glandular stomach		3	1	0	0	3	1	0	0	2	1	0	0	2	0	0	0
			(6)	(2)	(0)	(0)	(6)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(0)	(0)	(0)
	hyperplasia:glandular stomach		14	27	6	0	15	29	4	0	20	26	2	0	15	30	1	0
			(29)	(55)	(12)	(0)	(30)	(58)	(8)	(0)	(40)	(52)	(4)	(0)	(30)	(60)	(2)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
small intes	congestion		<49>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver	angiectasis		<49>				<50>				<50>				<50>			
			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central		1	1	0	0	0	1	0	0	0	0	0	0	1	2	0	0
			(2)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(4)	(0)	(0)
	necrosis:focal		2	0	0	0	3	1	0	0	1	3	0	0	3	1	0	0
			(4)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	(2)	(6)	(0)	(0)	(6)	(2)	(0)	(0)
	fatty change		2	1	0	0	2	0	0	0	1	0	0	0	0	0	0	0
			(4)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change:central		0	0	0	0	2	0	0	0	1	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change:peripheral		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		1	0	0	0	1	0	0	0	4	1	0	0	1	1	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(8)	(2)	(0)	(0)	(2)	(2)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade				Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
liver	granulation	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory cell nest	17	2	0	0	20	1	0	0	14	1	0	0	5	2	0	0	5	2	0	0 *
		(35)	(4)	(0)	(0)	(40)	(2)	(0)	(0)	(28)	(2)	(0)	(0)	(10)	(4)	(0)	(0)	(10)	(4)	(0)	(0)
	clear cell focus	4	0	0	0	9	1	0	0	4	0	0	0	5	0	0	0	5	0	0	0
		(8)	(0)	(0)	(0)	(18)	(2)	(0)	(0)	(8)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	acidophilic cell focus	0	0	0	0	2	0	0	0	6	1	0	0 *	8	3	0	0	8	3	0	0 **
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(12)	(2)	(0)	(0)	(16)	(6)	(0)	(0)	(16)	(6)	(0)	(0)
	basophilic cell focus	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	vacuolated cell focus	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bile ductular proliferation	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mobilization of Kupffer cell	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver	biliary cyst		<49>				<50>				<50>				<50>			
			0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hepatocellular hypertrophy with atypia:central		0	0	0	0	10	28	0	0 **	9	28	2	0 **	4	32	4	0 **
			(0)	(0)	(0)	(0)	(20)	(56)	(0)	(0)	(18)	(56)	(4)	(0)	(8)	(64)	(8)	(0)
gall bladd	erosion		<49>				<49>				<50>				<50>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas	atrophy		<48>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney	infarct		<49>				<50>				<50>				<50>			
			3	0	0	0	1	0	0	0	3	1	0	0	0	1	0	0
			(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	cyst		1	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<49>				<50>				<50>				<50>			
	hyaline droplet		0	1	0	0	1	1	1	0	2	0	0	0	1	1	0	0
			(0)	(2)	(0)	(0)	(2)	(2)	(2)	(0)	(4)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
	basophilic change		1	0	0	0	3	1	0	0	2	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		0	1	0	0	1	3	2	0	2	3	1	0	5	13	7	0 **
			(0)	(2)	(0)	(0)	(2)	(6)	(4)	(0)	(4)	(6)	(2)	(0)	(10)	(26)	(14)	(0)
	lymphocytic infiltration		12	2	0	0	17	1	0	0	20	0	0	0	13	1	0	0
			(24)	(4)	(0)	(0)	(34)	(2)	(0)	(0)	(40)	(0)	(0)	(0)	(26)	(2)	(0)	(0)
	inflammatory polyp		0	0	1	0	0	0	1	0	0	1	1	0	0	0	0	0
			(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)
	arteritis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis		2	1	2	0	0	0	3	0	0	0	2	0	0	0	0	0
			(4)	(2)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)
	tubular necrosis		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<49>				<50>				<50>				<50>			
	papillary necrosis		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization:cortex		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	dilatation:tubular lumen		0	3	0	0	0	2	0	0	0	2	0	0	0	1	0	0
			(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)
	atypical tubule hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
urin bladd			<49>				<50>				<50>				<50>			
	hemorrhage		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		8	0	0	0	10	0	0	0	12	0	0	0	8	0	0	0
			(16)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(16)	(0)	(0)	(0)
	simple hyperplasia:transitional epithelium		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<48>				<50>				<50>				<49>			
	cyst		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 13

Organ	Findings	Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	49				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary	hyperplasia		<48>				<50>				<50>				<49>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Rathke pouch	3	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0		
	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)		
adrenal	hemorrhage		<49>				<50>				<50>				<50>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
spindle-cell hyperplasia	33	0	0	0	35	1	0	0	29	1	0	0	26	0	0	0		
	(67)	(0)	(0)	(0)	(70)	(2)	(0)	(0)	(58)	(2)	(0)	(0)	(52)	(0)	(0)	(0)		
hyperplasia:cortical cell	1	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0		
	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
{Reproductive system}																		
testis	atrophy		<49>				<50>				<50>				<50>			
		4	0	0	0	4	1	0	0	3	0	0	0	3	1	0	0	
		(8)	(0)	(0)	(0)	(8)	(2)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(2)	(0)	(0)	
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study Grade				Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																					
testis	mineralization	<49>				<50>				<50>				<50>				<50>			
		40	0	0	0	45	0	0	0	38	0	0	0	35	1	0	0	35	1	0	0
		(82)	(0)	(0)	(0)	(90)	(0)	(0)	(0)	(76)	(0)	(0)	(0)	(70)	(2)	(0)	(0)	(70)	(2)	(0)	(0)
	xanthogranuloma	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
epididymis	inflammation	<49>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spermatogenic granuloma	0	2	0	0	0	1	0	0	1	1	0	0	0	2	0	0	0	2	0	0
		(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)
	xanthogranuloma	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
semin ves	inflammation	<49>				<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	polyp	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 15

		Group Name	Control 49				320 ppm 50				800 ppm 50				2000 ppm 50				
Organ	Findings	No. of Animals on Study Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Reproductive system}																			
prostate	inflammation		<49>				<50>				<50>				<50>				
		0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prep/oli gl	duct ectasia		<49>				<50>				<50>				<50>				
		0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																			
brain	mineralization		<49>				<50>				<50>				<50>				
		32	0	0	0	33	1	0	0	38	0	0	0	38	0	0	0	0	
			(65)	(0)	(0)	(0)	(66)	(2)	(0)	(0)	(76)	(0)	(0)	(0)	(76)	(0)	(0)	(0)	
	epidermal cyst		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	gliosis		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe																			
< a >		a : Number of animals examined at the site																	
b		b : Number of animals with lesion																	
(c)		c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																			

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 16

		Group Name No. of Animals on Study Grade	Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
Organ	Findings		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Nervous system}																		
periph nerv			<49>				<50>				<50>				<50>			
	inflammation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)
{Special sense organs/appendage}																		
eye			<49>				<50>				<50>				<50>			
	keratitis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
Harder gl			<49>				<50>				<50>				<50>			
	lymphocytic infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Musculoskeletal system}																		
muscle			<49>				<50>				<50>				<50>			
	mineralization		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control 49				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Musculoskeletal system}																		
bone			<49>				<50>				<50>				<50>			
	hyperplasia		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Body cavities}																		
peritoneum			<49>				<50>				<50>				<50>			
	inflammation		0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
mesenterium			<49>				<50>				<50>				<50>			
	hemorrhage		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adipose			<49>				<50>				<50>				<50>			
	granulation		2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

APPENDIX K 2

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE: ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<50>				<50>				<50>				<50>			
	inflammation		1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:epidermis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	epidermal cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
{Respiratory system}																		
nasal cavit			<50>				<50>				<50>				<50>			
	exudate		0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (8)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium		4 (8)	2 (4)	0 (0)	0 (0)	11 (22)	1 (2)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	10 (20)	3 (6)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium		18 (36)	13 (26)	0 (0)	0 (0)	18 (36)	15 (30)	0 (0)	0 (0)	10 (20)	32 (64)	1 (2)	0 (0)	14 (28)	25 (50)	3 (6)	0 (0)
	inflammation:squamous epithelium		1 (2)	0 (0)	0 (0)	0 (0)	3 (6)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
nasal cavit		<50>				<50>				<50>				<50>				<50>			
	inflammation:respiratory epithelium	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium	3	0	0	0	16	0	0	0 **	7	0	0	0	27	2	0	0 **	(54)	(4)	(0)	(0)
		(6)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(54)	(4)	(0)	(0)				
	respiratory metaplasia:gland	8	1	0	0	17	0	0	0	28	4	0	0 **	24	7	0	0 **	(48)	(14)	(0)	(0)
		(16)	(2)	(0)	(0)	(34)	(0)	(0)	(0)	(56)	(8)	(0)	(0)	(48)	(14)	(0)	(0)				
	inflammation:transitional epithelium	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	(2)	(0)	(0)	(0)
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)				
nasopharynx		<50>				<50>				<50>				<50>				<50>			
	eosinophilic change	2	3	0	0	2	2	0	0	3	1	0	0	4	1	0	0	(8)	(2)	(0)	(0)
		(4)	(6)	(0)	(0)	(4)	(4)	(0)	(0)	(6)	(2)	(0)	(0)	(8)	(2)	(0)	(0)				
lung		<50>				<50>				<50>				<50>				<50>			
	congestion	0	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	(0)	(2)	(0)	(0)
		(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(2)	(0)	(0)				
	hemorrhage	0	0	0	0	0	2	0	0	0	0	1	0	0	1	0	0	(0)	(2)	(0)	(0)
		(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)				

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 20

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<50>				<50>				<50>				<50>			
	edema		0	0	0	0	0	2	2	0	0	0	1	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)
	thrombus		0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		0	0	0	0	1	0	0	0	2	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(2)	(0)	(0)
	perivascular inflammation		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	accumulation of foamy cells		1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	interstitial pneumonia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar cell hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung	hyaline membrane		<50>				<50>				<50>				<50>			
			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow	decreased hematopoiesis		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	myelofibrosis		5	1	0	0	2	0	0	0	3	2	0	0	2	0	0	0
			(10)	(2)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(4)	(0)	(0)	(4)	(0)	(0)	(0)
	erythropoiesis:increased		2	0	0	0	2	0	0	0	0	0	0	0	4	0	0	0
			(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
	granulopoiesis:increased		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:vascular		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node	fibrosis		<50>				<50>				<50>				<50>			
			0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
lymph node			<50>				<50>				<50>				<50>			
	mastcell hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	plasma cell hyperplasia		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	follicular hyperplasia		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
spleen			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	atrophy		<50>				<50>				<50>				<50>			
			0	2	0	0	2	1	0	0	1	1	0	0	0	2	0	0
			(0)	(4)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(4)	(0)	(0)
	necrosis:focal		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of melanin		2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	extramedullary hematopoiesis		3	6	4	0	3	5	1	0	6	6	2	0	7	9	4	0
			(6)	(12)	(8)	(0)	(6)	(10)	(2)	(0)	(12)	(12)	(4)	(0)	(14)	(18)	(8)	(0)
	hyperplasia:vascular		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 23

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen	follicular hyperplasia		<50>				<50>				<50>				<50>			
		2 (4)	0 (0)	0 (0)	0 (0)	3 (6)	3 (6)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	
{Circulatory system}																		
heart	hemorrhage		<50>				<50>				<50>				<50>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	thrombus		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
			mineralization		0 (0)	1 (2)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)
	inflammatory cell nest				0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
			myocardial fibrosis		0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)
	arteritis				0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)
		Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe																
< a > a : Number of animals examined at the site																		
b b : Number of animals with lesion																		
(c) c : b / a * 100																		
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
artery/aort	arteritis		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
{Digestive system}																		
tooth	cyst		<50>				<50>				<50>				<50>			
			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	dysplasia		5	0	1	0	7	0	3	0	5	1	1	0	9	0	3	0
			(10)	(0)	(2)	(0)	(14)	(0)	(6)	(0)	(10)	(2)	(2)	(0)	(18)	(0)	(6)	(0)
tongue	arteritis		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
salivary gl	atrophy		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		21	0	0	0	19	0	0	0	17	0	0	0	23	0	0	0
			(42)	(0)	(0)	(0)	(38)	(0)	(0)	(0)	(34)	(0)	(0)	(0)	(46)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 25

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach	inflammatory infiltration		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	epidermal cyst		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:forestomach		1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	ulcer:forestomach		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		1	0	0	0	0	0	0	0	1	1	0	0	4	3	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(8)	(6)	(0)	(0)
	erosion:glandular stomach		2	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	hyperplasia:glandular stomach		15	31	0	0	15	30	0	0	19	27	1	0	17	27	1	0
			(30)	(62)	(0)	(0)	(30)	(60)	(0)	(0)	(38)	(54)	(2)	(0)	(34)	(54)	(2)	(0)
small intes	hemorrhage		<50>				<50>				<50>				<50>			
			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 26

		Group Name	Control				320 ppm				800 ppm				2000 ppm				
		No. of Animals on Study	50				50				50				50				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Digestive system}																			
liver			<50>				<50>				<50>				<50>				
	angiectasis		1 (2)	4 (8)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	thrombus		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:central		1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
	necrosis:focal		2 (4)	1 (2)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)
	fatty change:peripheral		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	5 (10)	0 (0)	1 (2)	0 (0)	0 (0)
granulation		0 (0)	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 27

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<50>				<50>				<50>				<50>			
	inflammatory cell nest		16	2	0	0	15	3	0	0	18	1	0	0	14	1	0	0
			(32)	(4)	(0)	(0)	(30)	(6)	(0)	(0)	(36)	(2)	(0)	(0)	(28)	(2)	(0)	(0)
	perivascular inflammation		1	0	0	0	3	0	1	0	1	0	0	0	2	0	0	0
			(2)	(0)	(0)	(0)	(6)	(0)	(2)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	clear cell focus		1	1	0	0	3	0	0	0	1	0	0	0	2	1	0	0
			(2)	(2)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)
	acidophilic cell focus		1	0	0	0	7	0	0	0	2	1	0	0	1	2	0	0
			(2)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(4)	(0)	(0)
	basophilic cell focus		0	0	0	0	4	0	0	0	1	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
	mobilization of Kuppfer cell		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	biliary cyst		1	0	0	0	2	0	0	0	3	0	0	0	1	0	0	0
			(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 28

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver	hepatocellular hypertrophy with atypia:central		<50>				<50>				<50>				<50>			
			0	0	0	0	10	5	0	0 **	18	13	0	0 **	14	17	4	0 **
			(0)	(0)	(0)	(0)	(20)	(10)	(0)	(0)	(32)	(26)	(0)	(0)	(28)	(34)	(8)	(0)
	vacuolic change:central		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
gall bladd	dilatation		<50>				<50>				<50>				<50>			
			0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
{Urinary system}																		
kidney	amyloid		<50>				<50>				<50>				<50>			
			0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	infarct		0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 29

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	cyst		<50>				<50>				<50>				<50>			
			0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline droplet		0	5	3	1	1	5	2	0	2	6	1	0	0	4	2	0
			(0)	(10)	(6)	(2)	(2)	(10)	(4)	(0)	(4)	(12)	(2)	(0)	(0)	(8)	(4)	(0)
	basophilic change		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)
	hyaline cast		1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)
	lymphocytic infiltration		13	1	0	0	15	0	0	0	13	1	0	0	15	3	0	0
			(26)	(2)	(0)	(0)	(30)	(0)	(0)	(0)	(26)	(2)	(0)	(0)	(30)	(6)	(0)	(0)
	fibrosis		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 30

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																					
kidney		<50>				<50>				<50>				<50>				<50>			
	inflammatory polyp	0	0	0	0	1	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(2)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	hydronephrosis	0	0	0	0	0	2	1	0	0	1	0	0	0	2	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	tubular necrosis	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd	papillary necrosis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	dilatation:tubular lumen	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	glomerulosclerosis	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration	<50>				<50>				<50>				<50>				<50>			
		23	1	0	0	23	1	0	0	25	0	0	0	23	1	0	0	23	1	0	0
		(46)	(2)	(0)	(0)	(46)	(2)	(0)	(0)	(50)	(0)	(0)	(0)	(46)	(2)	(0)	(0)	(46)	(2)	(0)	(0)
	simple hyperplasia:transitional epithelium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 31

Organ	Findings	Group Name No. of Animals on Study Grade				Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																					
pituitary	angiectasis	<50>				<50>				<49>				<50>							
		0	0	0	0	1	0	0	0	2	1	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	cyst	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia	1	1	0	0	1	5	0	0	5	2	0	0	2	0	0	0	2	0	0	0
		(2)	(2)	(0)	(0)	(2)	(10)	(0)	(0)	(10)	(4)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	Rathke pouch	1	0	0	0	1	0	0	0	3	0	0	0	2	0	0	0	2	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
adrenal	necrosis:zonal	<50>				<50>				<50>				<50>							
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	spindle-cell hyperplasia	28	22	0	0	38	10	0	0 *	39	11	0	0 *	37	11	0	0 *	74	22	0	0 *
		(56)	(44)	(0)	(0)	(76)	(20)	(0)	(0)	(78)	(22)	(0)	(0)	(74)	(22)	(0)	(0)	(74)	(22)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 32

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
adrenal	hyperplasia:cortical cell		<50>				<50>				<50>				<50>			
			1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0
			(2)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(2)	(0)	(0)	(0)
{Reproductive system}																		
ovary	hemorrhage		<50>				<50>				<50>				<50>			
			0	0	0	0	0	1	0	0	1	2	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(4)	(0)	(0)	(0)	(0)	(2)	(0)
	thrombus		0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)
uterus	cyst		3	9	0	0	6	2	0	0	3	8	0	0	4	4	0	0
			(6)	(18)	(0)	(0)	(12)	(4)	(0)	(0)	(6)	(16)	(0)	(0)	(8)	(8)	(0)	(0)
	dilatation		<50>				<50>				<50>				<50>			
			0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)
	hyperplasia:epithelium		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 33

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
uterus	cystic endometrial hyperplasia		<50>				<50>				<50>				<50>			
			20	7	0	0	12	5	1	0	17	6	0	0	16	3	0	0
			(40)	(14)	(0)	(0)	(24)	(10)	(2)	(0)	(34)	(12)	(0)	(0)	(32)	(6)	(0)	(0)
mammary gl	hyperplasia		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	galactocoele		0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prep/cli gl	duct ectasia		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
{Nervous system}																		
brain	hemorrhage		<50>				<50>				<50>				<50>			
			0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 34

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Nervous system}																		
brain	mineralization		<50>				<50>				<50>				<50>			
			7	0	0	0	16	0	0	0	29	0	0	0	8	0	0	0
			(14)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(58)	(0)	(0)	(0)	(16)	(0)	(0)	(0)
	epidermal cyst		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hydrocephalus		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye	keratitis		<50>				<50>				<50>				<50>			
			0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(2)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl	degeneration		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	lymphocytic infiltration		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105#)

PAGE : 35

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				320 ppm 50				800 ppm 50				2000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Musculoskeletal system}																		
muscle	mineralization		<50>				<50>				<50>				<50>			
			0	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0
			(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Body cavities}																		
peritoneum	hemorrhage		<50>				<50>				<50>				<50>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

(HPT150)

BAIS3

APPENDIX K 3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Control No. of Animals on Study Grade				320 ppm 27				800 ppm 26				2000 ppm 18			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																	
skin/app		<27>				<35>				<26>				<18>			
	hyperplasia:epidermis	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)
	epidermal cyst	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
subcutis		<27>				<35>				<26>				<18>			
	xanthogranuloma	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																	
nasal cavit		<27>				<35>				<26>				<18>			
	exudate	2	1	0	0	1	3	0	0	0	3	0	0	0	1	0	0
		(7)	(4)	(0)	(0)	(3)	(9)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(6)	(0)	(0)
	mineralization	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	exudate:neutrophil leukocyte	0	4	0	0	1	1	0	0	1	0	0	0	0	0	0	0
		(0)	(15)	(0)	(0)	(3)	(3)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe																	
< a > a : Number of animals examined at the site																	
b b : Number of animals with lesion																	
(c) c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																	

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 2

		Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	27				35				26				18			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<27>				<35>				<26>				<18>			
	eosinophilic change:olfactory epithelium		3	0	0	0	9	1	0	0	9	0	0	0	4	0	0	0
			(11)	(0)	(0)	(0)	(26)	(3)	(0)	(0)	(35)	(0)	(0)	(0)	(22)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		10	1	0	0	15	3	0	0	6	7	0	0	7	6	0	0 *
			(37)	(4)	(0)	(0)	(43)	(9)	(0)	(0)	(23)	(27)	(0)	(0)	(39)	(33)	(0)	(0)
	inflammation:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
	respiratory metaplasia:olfactory epithelium		2	1	0	0	8	1	0	0	10	0	0	0 *	8	0	0	0 *
			(7)	(4)	(0)	(0)	(23)	(3)	(0)	(0)	(38)	(0)	(0)	(0)	(44)	(0)	(0)	(0)
	respiratory metaplasia:gland		10	4	0	0	8	10	0	0	9	2	0	0	7	2	0	0
			(37)	(15)	(0)	(0)	(23)	(29)	(0)	(0)	(35)	(8)	(0)	(0)	(39)	(11)	(0)	(0)
lung			<27>				<35>				<26>				<18>			
	hemorrhage		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	thrombus		0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(6)	(0)
	inflammatory infiltration		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade	1 : Slight 2 : Moderate 3 : Marked 4 : Severe																	
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				320 ppm 35				800 ppm 26				2000 ppm 18			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<27>				<35>				<26>				<18>			
	perivascular inflammation		0	0	0	0	2	0	0	0	2	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(6)	(6)	(0)	(0)
	accumulation of foamy cells		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<27>				<35>				<26>				<18>			
	myelofibrosis		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erythropoiesis:increased		4	1	0	0	2	0	0	0	6	0	0	0	7	2	0	0
			(15)	(4)	(0)	(0)	(6)	(0)	(0)	(0)	(23)	(0)	(0)	(0)	(39)	(11)	(0)	(0)
	granulopoiesis:increased		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	hyperplasia:vascular		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				320 ppm 35				800 ppm 26				2000 ppm 18			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
(Hematopoietic system)																		
spleen			<27>				<35>				<26>				<18>			
	deposit of hemosiderin		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	deposit of melanin		1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		3 (11)	0 (0)	1 (4)	0 (0)	2 (6)	3 (9)	0 (0)	0 (0)	2 (8)	3 (12)	0 (0)	0 (0)	2 (11)	5 (28)	0 (0)	0 * (0)
	hyperplasia:vascular		2 (7)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	follicular hyperplasia		1 (4)	1 (4)	0 (0)	0 (0)	7 (20)	1 (3)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)	4 (22)	0 (0)	0 (0)	0 (0)
(Circulatory system)																		
heart			<27>				<35>				<26>				<18>			
	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	myocardial fibrosis		0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Grade	1 : Slight 2 : Moderate 3 : Marked 4 : Severe																	
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				320 ppm 35				800 ppm 26				2000 ppm 18			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart	arteritis		<27>				<35>				<26>				<18>			
			0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
artery/aort	arteritis		<27>				<35>				<26>				<18>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tooth	cyst		<27>				<35>				<26>				<18>			
			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	dysplasia		<27>				<35>				<26>				<18>			
			8	10	3	0	15	5	3	0	10	2	2	0	11	1	0	0 *
			(30)	(37)	(11)	(0)	(43)	(14)	(9)	(0)	(38)	(8)	(8)	(0)	(61)	(6)	(0)	(0)
tongue	arteritis		<27>				<35>				<26>				<18>			
			1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
salivary gl	atrophy		<27>				<35>				<26>				<18>			
			0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 6

Organ	Findings	Control No. of Animals on Study Grade				320 ppm 35				800 ppm 26				2000 ppm 18			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
salivary gl		<27>				<35>				<26>				<18>			
	lymphocytic infiltration	17 (63)	0 (0)	0 (0)	0 (0)	30 (86)	0 (0)	0 (0)	0 (0)	22 (85)	0 (0)	0 (0)	0 (0)	13 (72)	1 (6)	0 (0)	0 (0)
	xanthogranuloma	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
stomach		<27>				<35>				<26>				<18>			
	erosion:forestomach	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:forestomach	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	2 (11)	1 (6)	0 (0)	0 (0)
	erosion:glandular stomach	3 (11)	1 (4)	0 (0)	0 (0)	3 (9)	1 (3)	0 (0)	0 (0)	2 (8)	1 (4)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)
	hyperplasia:glandular stomach	7 (26)	15 (56)	5 (19)	0 (0)	7 (20)	24 (69)	4 (11)	0 (0)	7 (27)	16 (62)	2 (8)	0 (0)	1 (6)	16 (89)	1 (6)	0 (0)
liver		<27>				<35>				<26>				<18>			
	angiectasis	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade				Control 27				320 ppm 35				800 ppm 26				2000 ppm 18			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
liver		<27>				<35>				<26>				<18>							
	necrosis:central	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:focal	2 (7)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	fatty change	1 (4)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	fatty change:central	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest	17 (63)	2 (7)	0 (0)	0 (0)	20 (57)	1 (3)	0 (0)	0 (0)	14 (54)	1 (4)	0 (0)	0 (0)	5 (28)	2 (11)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	clear cell focus	4 (15)	0 (0)	0 (0)	0 (0)	9 (26)	1 (3)	0 (0)	0 (0)	4 (15)	0 (0)	0 (0)	0 (0)	5 (28)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 8

Organ	Findings	Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	27				35				26				18			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver	acidophilic cell focus		<27>				<35>				<26>				<18>			
			0	0	0	0	2	0	0	0	5	0	0	0	4	1	0	0 *
			(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(19)	(0)	(0)	(0)	(22)	(6)	(0)	(0)
	basophilic cell focus		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	vacuolated cell focus		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
bile ductular proliferation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
mobilization of Kuppfer cell		1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	
		(4)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	
biliary cyst		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
hepatocellular hypertrophy with atypia:central		0	0	0	0	8	22	0	0 **	3	20	0	0 **	2	16	0	0 **	
		(0)	(0)	(0)	(0)	(23)	(63)	(0)	(0)	(12)	(77)	(0)	(0)	(11)	(89)	(0)	(0)	
gall bladd	erosion		<27>				<35>				<26>				<18>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade		1 : Slight	2 : Moderate				3 : Marked				4 : Severe							
< a >		a : Number of animals examined at the site																
b		b : Number of animals with lesion																
(c)		c : b / a * 100																
Significant difference ;		* : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				320 ppm 35				800 ppm 26				2000 ppm 18			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																		
kidney			<27>				<35>				<26>				<18>			
	infarct		2	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(8)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		1	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	hyaline droplet		0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic change		1	0	0	0	3	1	0	0	2	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(9)	(3)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		0	1	0	0	0	0	0	0	1	0	0	0	1	3	1	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(17)	(6)	(0)
	lymphocytic infiltration		9	1	0	0	17	1	0	0	17	0	0	0	9	1	0	0
			(33)	(4)	(0)	(0)	(49)	(3)	(0)	(0)	(65)	(0)	(0)	(0)	(50)	(6)	(0)	(0)
	arteritis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	dilatation:tubular lumen		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105#)

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 27				320 ppm 35				800 ppm 26				2000 ppm 18			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	atypical tubule hyperplasia		<27>				<35>				<26>				<18>			
			0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
urin bladd	lymphocytic infiltration		<27>				<35>				<26>				<18>			
			8	0	0	0	9	0	0	0	8	0	0	0	5	0	0	0
			(30)	(0)	(0)	(0)	(26)	(0)	(0)	(0)	(31)	(0)	(0)	(0)	(28)	(0)	(0)	(0)
{Endocrine system}																		
pituitary	cyst		<26>				<35>				<26>				<18>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		<26>				<35>				<26>				<18>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	Rathke pouch		<26>				<35>				<26>				<18>			
			3	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
			(12)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(11)	(0)	(0)	(0)
adrenal	spindle-cell hyperplasia		<27>				<35>				<26>				<18>			
			21	0	0	0	27	1	0	0	16	1	0	0	13	0	0	0
			(78)	(0)	(0)	(0)	(77)	(3)	(0)	(0)	(62)	(4)	(0)	(0)	(72)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade				Control 27				320 ppm 35				800 ppm 26				2000 ppm 18			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																					
adrenal		<27>				<35>				<26>				<18>							
	hyperplasia:cortical cell	1 (4)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	3 (12)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Reproductive system}																					
testis		<27>				<35>				<26>				<18>							
	atrophy	2 (7)	0 (0)	0 (0)	0 (0)	4 (11)	1 (3)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization	25 (93)	0 (0)	0 (0)	0 (0)	33 (94)	0 (0)	0 (0)	0 (0)	21 (81)	0 (0)	0 (0)	0 (0)	10 (56)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	xanthogranuloma	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
epididymis		<27>				<35>				<26>				<18>							
	spermatogenic granuloma	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	1 (4)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	xanthogranuloma	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 12

Organ	Findings	Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	27				35				26				18			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
semin ves			<27>				<35>				<26>				<18>			
	inflammation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	polyp		1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
			(4)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prostate			<27>				<35>				<26>				<18>			
	hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
prep/cli gl			<27>				<35>				<26>				<18>			
	duct ectasia		0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																		
brain			<27>				<35>				<26>				<18>			
	mineralization		19	0	0	0	26	1	0	0	19	0	0	0	15	0	0	0
			(70)	(0)	(0)	(0)	(74)	(3)	(0)	(0)	(73)	(0)	(0)	(0)	(83)	(0)	(0)	(0)
	epidermal cyst		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade	1 : Slight 2 : Moderate 3 : Marked 4 : Severe																	
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 13

		Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	27				35				26				18			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																		
eye			<27>				<35>				<26>				<18>			
	keratitis		0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)
Harder gl			<27>				<35>				<26>				<18>			
	lymphocytic infiltration		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Musculoskeletal system}																		
muscle			<27>				<35>				<26>				<18>			
	mineralization		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Body cavities}																		
peritoneum			<27>				<35>				<26>				<18>			
	inflammation		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade	1 : Slight 2 : Moderate 3 : Marked 4 : Severe																	
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105#)

PAGE : 14

Organ	Findings	Group Name Control No. of Animals on Study Grade				320 ppm 35				800 ppm 26				2000 ppm 18			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Body cavities)																	
mesenterium	hemorrhage	<27>				<35>				<26>				<18>			
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adipose	granulation	<27>				<35>				<26>				<18>			
		2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		(7)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

(HPT150)

BAIS3

APPENDIX K 4

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				320 ppm 28				800 ppm 29				2000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																		
skin/app			<30>				<28>				<29>				<24>			
	inflammation		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	epidermal cyst		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
{Respiratory system}																		
nasal cavit			<30>				<28>				<29>				<24>			
	exudate		0	1	0	0	0	2	0	0	0	0	0	0	0	1	0	0
			(0)	(3)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
	eosinophilic change:olfactory epithelium		3	2	0	0	10	1	0	0	5	0	0	0	4	3	0	0
			(10)	(7)	(0)	(0)	(36)	(4)	(0)	(0)	(17)	(0)	(0)	(0)	(17)	(13)	(0)	(0)
	eosinophilic change:respiratory epithelium		10	10	0	0	13	10	0	0	6	21	1	0 **	4	16	3	0 **
			(33)	(33)	(0)	(0)	(46)	(36)	(0)	(0)	(21)	(72)	(3)	(0)	(17)	(67)	(13)	(0)
	inflammation:squamous epithelium		1	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(7)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation:respiratory epithelium		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 16

Organ_____	Findings_____	Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	30				28				29				24			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<30>				<28>				<29>				<24>			
	respiratory metaplasia:olfactory epithelium		2	0	0	0	11	0	0	0 **	6	0	0	0	22	1	0	0 **
			(7)	(0)	(0)	(0)	(39)	(0)	(0)	(0)	(21)	(0)	(0)	(0)	(92)	(4)	(0)	(0)
	respiratory metaplasia:gland		5	1	0	0	12	0	0	0	18	4	0	0 **	17	6	0	0 **
			(17)	(3)	(0)	(0)	(43)	(0)	(0)	(0)	(62)	(14)	(0)	(0)	(71)	(25)	(0)	(0)
	inflammation:transitional epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
nasopharynx			<30>				<28>				<29>				<24>			
	eosinophilic change		2	2	0	0	2	2	0	0	2	0	0	0	4	1	0	0
			(7)	(7)	(0)	(0)	(7)	(7)	(0)	(0)	(7)	(0)	(0)	(0)	(17)	(4)	(0)	(0)
lung			<30>				<28>				<29>				<24>			
	edema		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)
	thrombus		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	perivascular inflammation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 17

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				320 ppm 28				800 ppm 29				2000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<30>				<28>				<29>				<24>			
	accumulation of foamy cells		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	interstitial pneumonia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar cell hyperplasia		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	bronchiolar-alveolar cell hyperplasia		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<30>				<28>				<29>				<24>			
	decreased hematopoiesis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	myelofibrosis		5	0	0	0	2	0	0	0	2	2	0	0	2	0	0	0
			(17)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(7)	(7)	(0)	(0)	(8)	(0)	(0)	(0)
	erythropoiesis:increased		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				320 ppm 28				800 ppm 29				2000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
bone marrow			<30>				<28>				<29>				<24>			
	granulopoiesis:increased		0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:vascular		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
lymph node			<30>				<28>				<29>				<24>			
	fibrosis		0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mastcell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	follicular hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
spleen			<30>				<28>				<29>				<24>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				320 ppm 28				800 ppm 29				2000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen			<30>				<28>				<29>				<24>			
	deposit of melanin		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis		2	1	2	0	2	3	1	0	4	1	0	0	3	2	0	0
			(7)	(3)	(7)	(0)	(7)	(11)	(4)	(0)	(14)	(3)	(0)	(0)	(13)	(8)	(0)	(0)
	hyperplasia:vascular		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	follicular hyperplasia		2	0	0	0	3	3	0	0	2	1	0	0	2	1	0	0
			(7)	(0)	(0)	(0)	(11)	(11)	(0)	(0)	(7)	(3)	(0)	(0)	(8)	(4)	(0)	(0)
{Circulatory system}																		
heart			<30>				<28>				<29>				<24>			
	myocardial fibrosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
artery/aort			<30>				<28>				<29>				<24>			
	arteritis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 20

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				320 ppm 28				800 ppm 29				2000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
tooth	cyst		<30>				<28>				<29>				<24>			
			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	dysplasia		5	0	1	0	5	0	2	0	5	1	1	0	8	0	1	0
			(17)	(0)	(3)	(0)	(18)	(0)	(7)	(0)	(17)	(3)	(3)	(0)	(33)	(0)	(4)	(0)
tongue	arteritis		<30>				<28>				<29>				<24>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
salivary gl	lymphocytic infiltration		<30>				<28>				<29>				<24>			
			18	0	0	0	17	0	0	0	15	0	0	0	14	0	0	0
			(60)	(0)	(0)	(0)	(61)	(0)	(0)	(0)	(52)	(0)	(0)	(0)	(58)	(0)	(0)	(0)
stomach	epidermal cyst		<30>				<28>				<29>				<24>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:forestomach		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hyperplasia:forestomach		1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(4)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 21

Organ	Findings	Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	30				28				29				24			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<30>				<28>				<29>				<24>			
	erosion:glandular stomach		2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(7)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach		5	25	0	0	4	24	0	0	4	24	1	0	4	19	1	0
			(17)	(83)	(0)	(0)	(14)	(86)	(0)	(0)	(14)	(83)	(3)	(0)	(17)	(79)	(4)	(0)
liver			<30>				<28>				<29>				<24>			
	angiectasis		1	3	0	0	0	0	0	0	1	1	0	0	0	0	0	0
			(3)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change:peripheral		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		0	0	0	0	1	1	0	0	0	0	0	0	4	0	1	0 *
			(0)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(17)	(0)	(4)	(0)
	granulation		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 22

Organ	Findings	Control No. of Animals on Study Grade				320 ppm 28				800 ppm 29				2000 ppm 24			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																	
liver		<30>				<28>				<29>				<24>			
	inflammatory cell nest	15 (50)	2 (7)	0 (0)	0 (0)	15 (54)	3 (11)	0 (0)	0 (0)	18 (62)	1 (3)	0 (0)	0 (0)	13 (54)	1 (4)	0 (0)	0 (0)
	perivascular inflammation	1 (3)	0 (0)	0 (0)	0 (0)	3 (11)	0 (0)	1 (4)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)
	clear cell focus	1 (3)	1 (3)	0 (0)	0 (0)	3 (11)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	2 (8)	1 (4)	0 (0)	0 (0)
	acidophilic cell focus	1 (3)	0 (0)	0 (0)	0 (0)	4 (14)	0 (0)	0 (0)	0 (0)	2 (7)	1 (3)	0 (0)	0 (0)	1 (4)	1 (4)	0 (0)	0 (0)
	basophilic cell focus	0 (0)	0 (0)	0 (0)	0 (0)	3 (11)	0 (0)	0 (0)	0 (0)	1 (3)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	mobilization of Kupffer cell	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	biliary cyst	1 (3)	0 (0)	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	3 (10)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)
	hepatocellular hypertrophy with atypia:central	0 (0)	0 (0)	0 (0)	0 (0)	10 (36)	4 (14)	0 (0)	0 (0) **	14 (48)	8 (28)	0 (0)	0 (0) **	8 (33)	12 (50)	0 (0)	0 (0) **

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 23

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				320 ppm 28				800 ppm 29				2000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
gall bladd	dilatation		<30>				<28>				<29>				<24>			
			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
{Urinary system}																		
kidney	infarct		<30>				<28>				<29>				<24>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cyst		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline droplet		0	3	1	1	0	1	1	0	1	0	0	0	0	0	0	0
			(0)	(10)	(3)	(3)	(0)	(4)	(4)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline cast		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105#)

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				320 ppm 28				800 ppm 29				2000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<30>				<28>				<29>				<24>			
	lymphocytic infiltration		12	0	0	0	11	0	0	0	11	1	0	0	12	3	0	0
			(40)	(0)	(0)	(0)	(39)	(0)	(0)	(0)	(38)	(3)	(0)	(0)	(50)	(13)	(0)	(0)
	inflammatory polyp		0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
	hydronephrosis		0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
	tubular necrosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	papillary necrosis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	dilatation:tubular lumen		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd			<30>				<28>				<29>				<24>			
	lymphocytic infiltration		21	1	0	0	19	0	0	0	23	0	0	0	16	1	0	0
			(70)	(3)	(0)	(0)	(68)	(0)	(0)	(0)	(79)	(0)	(0)	(0)	(67)	(4)	(0)	(0)
{Endocrine system}																		
pituitary			<30>				<28>				<29>				<24>			
	angiectasis		0	0	0	0	0	0	0	0	2	1	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(7)	(3)	(0)	(0)	(4)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 25

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				320 ppm 28				800 ppm 29				2000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
pituitary			<30>				<28>				<29>				<24>			
	cyst		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		1	1	0	0	1	4	0	0	3	2	0	0	1	0	0	0
			(3)	(3)	(0)	(0)	(4)	(14)	(0)	(0)	(10)	(7)	(0)	(0)	(4)	(0)	(0)	(0)
	Rathke pouch		1	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
			(3)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
adrenal			<30>				<28>				<29>				<24>			
	fatty change		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	spindle-cell hyperplasia		12	18	0	0	19	9	0	0	20	9	0	0 *	16	7	0	0
			(40)	(60)	(0)	(0)	(68)	(32)	(0)	(0)	(69)	(31)	(0)	(0)	(67)	(29)	(0)	(0)
	hyperplasia:cortical cell		1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0
			(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	(0)	(0)	(0)	(0)
{Reproductive system}																		
ovary			<30>				<28>				<29>				<24>			
	hemorrhage		0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF₁
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (105#)

PAGE : 26

		Group Name No. of Animals on Study Grade	Control 30				320 ppm 28				800 ppm 29				2000 ppm 24			
Organ	Findings		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Reproductive system}																		
ovary	cyst		<30>				<28>				<29>				<24>			
		3 (10)	8 (27)	0 (0)	0 (0)	4 (14)	1 (4)	0 (0)	0 (0)	1 (3)	6 (21)	0 (0)	0 (0)	4 (17)	1 (4)	0 (0)	0 (0)	
uterus	dilatation		<30>				<28>				<29>				<24>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	
	hyperplasia:epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		cystic endometrial hyperplasia		16 (53)	4 (13)	0 (0)	0 (0)	9 (32)	3 (11)	1 (4)	0 (0)	14 (48)	5 (17)	0 (0)	0 (0)	12 (50)	2 (8)	0 (0)
mammary gl	hyperplasia		<30>				<28>				<29>				<24>			
		0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	galactoceles		0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Nervous system}																		
brain	hemorrhage		<30>				<28>				<29>				<24>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Grade	1 : Slight 2 : Moderate 3 : Marked 4 : Severe																	
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 27

Organ	Findings	Group Name No. of Animals on Study Grade	Control 30				320 ppm 28				800 ppm 29				2000 ppm 24			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Nervous system}																		
brain	mineralization		<30>				<28>				<29>				<24>			
			6	0	0	0	10	0	0	0	20	0	0	0 **	4	0	0	0
			(20)	(0)	(0)	(0)	(36)	(0)	(0)	(0)	(69)	(0)	(0)	(0)	(17)	(0)	(0)	(0)
	epidermal cyst		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hydrocephalus		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye	keratitis		<30>				<28>				<29>				<24>			
			0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(3)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl	lymphocytic infiltration		<30>				<28>				<29>				<24>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(3)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Body cavities}																		
peritoneum	hemorrhage		<30>				<28>				<29>				<24>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

APPENDIX K 5

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 1

		Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	22				15				24				32			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
{Integumentary system/appandage}																		
skin/app	ulcer		<22>				<15>				<24>				<32>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)
subcutis	xanthogranuloma		<22>				<15>				<24>				<32>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Respiratory system}																		
nasal cavit	exudate		<22>				<15>				<24>				<32>			
		0	1	0	0	1	2	0	0	0	1	0	0	1	2	0	0	
			(0)	(5)	(0)	(0)	(7)	(13)	(0)	(0)	(0)	(4)	(0)	(0)	(3)	(6)	(0)	(0)
	exudate:neutrophil leukocyte		<22>				<15>				<24>				<32>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)
	eosinophilic change:olfactory epithelium		<22>				<15>				<24>				<32>			
		1	0	0	0	2	0	0	0	6	1	0	0	3	0	0	0	
			(5)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(25)	(4)	(0)	(0)	(9)	(0)	(0)	(0)
	eosinophilic change:respiratory epithelium		<22>				<15>				<24>				<32>			
		4	1	0	0	2	2	0	0	4	1	0	0	2	1	0	0	
			(18)	(5)	(0)	(0)	(13)	(13)	(0)	(0)	(17)	(4)	(0)	(0)	(6)	(3)	(0)	(0)
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control 22				320 ppm 15				800 ppm 24				2000 ppm 32			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	inflammation:respiratory epithelium		<22>				<15>				<24>				<32>			
			0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)	(0)
	respiratory metaplasia:olfactory epithelium		5	0	0	0	2	1	0	0	3	0	0	0	1	2	0	0 *
			(23)	(0)	(0)	(0)	(13)	(7)	(0)	(0)	(13)	(0)	(0)	(0)	(3)	(6)	(0)	(0)
	respiratory metaplasia:gland		5	3	0	0	2	2	0	0	4	0	0	0	1	2	0	0 *
			(23)	(14)	(0)	(0)	(13)	(13)	(0)	(0)	(17)	(0)	(0)	(0)	(3)	(6)	(0)	(0)
	necrosis:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)
lung	congestion		<22>				<15>				<24>				<32>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hemorrhage		0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(3)	(0)	(0)
	edema		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	inflammatory infiltration		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control 22				320 ppm 15				800 ppm 24				2000 ppm 32			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<22>				<15>				<24>				<32>			
	perivascular inflammation		0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
	accumulation of foamy cells		0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<22>				<15>				<24>				<32>			
	erythropoiesis:increased		2	0	0	0	4	1	0	0	5	3	0	0	9	5	0	0 *
			(9)	(0)	(0)	(0)	(27)	(7)	(0)	(0)	(21)	(13)	(0)	(0)	(28)	(16)	(0)	(0)
	granulopoiesis:increased		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node			<22>				<15>				<24>				<32>			
	lymphadenitis		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<22>				<15>				<24>				<32>			
	atrophy		1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(5)	(5)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade	Control 22				320 ppm 15				800 ppm 24				2000 ppm 32			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
spleen			<22>				<15>				<24>				<32>			
	deposit of hemosiderin		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of melanin		0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		4	8	0	0	1	4	3	0	5	5	1	0	5	10	5	0
			(18)	(36)	(0)	(0)	(7)	(27)	(20)	(0)	(21)	(21)	(4)	(0)	(16)	(31)	(16)	(0)
	hyperplasia:vascular		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	follicular hyperplasia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Circulatory system}																		
heart			<22>				<15>				<24>				<32>			
	thrombus		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)
	necrosis:zonal		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control 22				320 ppm 15				800 ppm 24				2000 ppm 32			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart	mineralization		<22>				<15>				<24>				<32>			
			3	1	0	0	3	1	0	0	4	0	0	0	5	1	0	0
			(14)	(5)	(0)	(0)	(20)	(7)	(0)	(0)	(17)	(0)	(0)	(0)	(16)	(3)	(0)	(0)
	myocardial fibrosis		0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0
			(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(3)	(0)	(0)
			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	arteritis		(5)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
tooth	dysplasia		<22>				<15>				<24>				<32>			
			6	6	0	0	2	2	4	0	10	2	0	0	12	1	2	0
			(27)	(27)	(0)	(0)	(13)	(13)	(27)	(0)	(42)	(8)	(0)	(0)	(38)	(3)	(6)	(0)
tongue	erosion		<22>				<15>				<24>				<32>			
			1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
salivary gl	lymphocytic infiltration		<22>				<15>				<24>				<32>			
			5	0	0	0	1	0	0	0	7	0	0	0	7	0	0	0
			(23)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(29)	(0)	(0)	(0)	(22)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study Grade	Control 22				320 ppm 15				800 ppm 24				2000 ppm 32			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
salivary gl	xanthogranuloma		<22>				<15>				<24>				<32>			
			0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
stomach	ulcer:forestomach		<22>				<15>				<24>				<32>			
			0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(7)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		1	1	0	0	1	0	0	0	1	2	0	0	0	0	0	0
			(5)	(5)	(0)	(0)	(7)	(0)	(0)	(0)	(4)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:glandular stomach		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	hyperplasia:glandular stomach		7	12	1	0	8	5	0	0	13	10	0	0	14	14	0	0
			(32)	(55)	(5)	(0)	(53)	(33)	(0)	(0)	(54)	(42)	(0)	(0)	(44)	(44)	(0)	(0)
small intes	congestion		<22>				<15>				<24>				<32>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver	necrosis:central		<22>				<15>				<24>				<32>			
			0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0
			(0)	(5)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(3)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (C-105W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade				Control 22				320 ppm 15				800 ppm 24				2000 ppm 32			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
liver		<22>				<15>				<24>				<32>							
	necrosis:focal	0	0	0	0	2	1	0	0	1	3	0	0	2	1	0	0	2	1	0	0
		(0)	(0)	(0)	(0)	(13)	(7)	(0)	(0)	(4)	(13)	(0)	(0)	(6)	(3)	(0)	(0)	(6)	(3)	(0)	(0)
	fatty change	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(5)	(5)	(0)	(0)	(7)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change:central	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	fatty change:peripheral	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	1	0	0	0	1	0	0	0	2	1	0	0	1	1	0	0	1	1	0	0
		(5)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(8)	(4)	(0)	(0)	(3)	(3)	(0)	(0)	(3)	(3)	(0)	(0)
	acidophilic cell focus	0	0	0	0	0	0	0	0	1	1	0	0	4	2	0	0	4	2	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(13)	(6)	(0)	(0)	(13)	(6)	(0)	(0)
	basophilic cell focus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	vacuolated cell focus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 8

		Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	22				15				24				32			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver	hepatocellular hypertrophy with atypia:central		<22>				<15>				<24>				<32>			
		0	0	0	0	2	6	0	0 **	6	8	2	0 **	2	16	4	0 **	
			(0)	(0)	(0)	(0)	(13)	(40)	(0)	(0)	(25)	(33)	(8)	(0)	(6)	(50)	(13)	(0)
pancreas	atrophy		<21>				<15>				<24>				<32>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney	infarct		<22>				<15>				<24>				<32>			
		1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	
	hyaline droplet		0	1	0	0	1	0	1	0	1	0	0	0	1	1	0	0
		(0)	(5)	(0)	(0)	(7)	(0)	(7)	(0)	(4)	(0)	(0)	(0)	(3)	(3)	(0)	(0)	
	deposit of hemosiderin		0	0	0	0	1	3	2	0 *	1	3	1	0	4	10	6	0 **
		(0)	(0)	(0)	(0)	(7)	(20)	(13)	(0)	(4)	(13)	(4)	(0)	(13)	(31)	(19)	(0)	
	lymphocytic infiltration		3	1	0	0	0	0	0	0	3	0	0	0	4	0	0	0
		(14)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	
Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe																		
< a > a : Number of animals examined at the site																		
b b : Number of animals with lesion																		
(c) c : b / a * 100																		
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade	Control 22				320 ppm 15				800 ppm 24				2000 ppm 32			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<22>				<15>				<24>				<32>			
	inflammatory polyp		0	0	1	0	0	0	1	0	0	1	1	0	0	0	0	0
			(0)	(0)	(5)	(0)	(0)	(0)	(7)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis		2	1	2	0	0	0	3	0	0	0	2	0	0	0	0	0 *
			(9)	(5)	(9)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)
	tubular necrosis		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)
	papillary necrosis		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	mineralization:cortex		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	dilatation:tubular lumen		0	3	0	0	0	2	0	0	0	2	0	0	0	0	0	0
			(0)	(14)	(0)	(0)	(0)	(13)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)
urin bladd			<22>				<15>				<24>				<32>			
	hemorrhage		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		0	0	0	0	1	0	0	0	4	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(17)	(0)	(0)	(0)	(9)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study Grade	Control 22				320 ppm 15				800 ppm 24				2000 ppm 32			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
urin bladd			<22>				<15>				<24>				<32>			
	simple hyperplasia:transitional epithelium		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																		
pituitary			<22>				<15>				<24>				<31>			
	Rathke pouch		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
adrenal			<22>				<15>				<24>				<32>			
	hemorrhage		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spindle-cell hyperplasia		12	0	0	0	8	0	0	0	13	0	0	0	13	0	0	0
			(55)	(0)	(0)	(0)	(53)	(0)	(0)	(0)	(54)	(0)	(0)	(0)	(41)	(0)	(0)	(0)
{Reproductive system}																		
testis			<22>				<15>				<24>				<32>			
	atrophy		2	0	0	0	0	0	0	0	1	0	0	0	2	1	0	0
			(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(6)	(3)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control 22				320 ppm 15				800 ppm 24				2000 ppm 32			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
testis	mineralization		<22>				<15>				<24>				<32>			
			15	0	0	0	12	0	0	0	17	0	0	0	25	1	0	0
			(68)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(71)	(0)	(0)	(0)	(78)	(3)	(0)	(0)
epididymis	inflammation		<22>				<15>				<24>				<32>			
			0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)
	spermatogenic granuloma		<22>				<15>				<24>				<32>			
			0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0
			(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(0)	(0)
prostate	inflammation		<22>				<15>				<24>				<32>			
			0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(4)	(4)	(0)	(0)	(0)	(3)	(0)	(0)
prep/cli gl	duct ectasia		<22>				<15>				<24>				<32>			
			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Nervous system}																		
brain	mineralization		<22>				<15>				<24>				<32>			
			13	0	0	0	7	0	0	0	19	0	0	0	23	0	0	0
			(59)	(0)	(0)	(0)	(47)	(0)	(0)	(0)	(79)	(0)	(0)	(0)	(72)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105#)

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 22				320 ppm 15				800 ppm 24				2000 ppm 32			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Nervous system}																		
brain	gliosis		<22>				<15>				<24>				<32>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)
periph nerv	inflammation		<22>				<15>				<24>				<32>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)
{Musculoskeletal system}																		
muscle	mineralization		<22>				<15>				<24>				<32>			
			1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
bone	hyperplasia		<22>				<15>				<24>				<32>			
			0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(7)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Body cavities}																		
peritoneum	inflammation		<22>				<15>				<24>				<32>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(3)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

APPENDIX K 6

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 13

Organ_____	Findings_____	Group Name No. of Animals on Study Grade	Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Integumentary system/appandage}																		
skin/app	inflammation		<20>				<22>				<21>				<26>			
		1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:epidermis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Respiratory system}																		
nasal cavit	exudate		<20>				<22>				<21>				<26>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (12)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium		1 (5)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	3 (14)	0 (0)	0 (0)	0 (0)	6 (23)	0 (0)	0 (0)	0 (0)
			eosinophilic change:respiratory epithelium		8 (40)	3 (15)	0 (0)	0 (0)	5 (23)	5 (23)	0 (0)	0 (0)	4 (19)	11 (52)	0 (0)	0 (0)	10 (38)	9 (35)
	inflammation:squamous epithelium				0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)
			inflammation:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105#)

PAGE : 14

Organ_____	Findings_____	Group Name	Control				320 ppm				800 ppm				2000 ppm																				
		No. of Animals on Study	20				22				21				26																				
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)																	
{Respiratory system}																																			
nasal cavit			<20>				<22>				<21>				<26>																				
	respiratory metaplasia:olfactory epithelium	1	0	0	0	(5)	(0)	(0)	(0)	5	0	0	0	(5)	(0)	(0)	(0)	5	1	0	0	(19)	(4)	(0)	(0)										
	respiratory metaplasia:gland	3	0	0	0	(15)	(0)	(0)	(0)	5	0	0	0	(23)	(0)	(0)	(0)	10	0	0	0	(48)	(0)	(0)	(0)	7	1	0	0	(27)	(4)	(0)	(0)		
nasopharynx			<20>				<22>				<21>				<26>																				
	eosinophilic change	0	1	0	0	(0)	(5)	(0)	(0)	0	0	0	0	(0)	(0)	(0)	(0)	1	1	0	0	(5)	(5)	(0)	(0)	0	0	0	0	(0)	(0)	(0)	(0)		
lung			<20>				<22>				<21>				<26>																				
	congestion	0	1	1	0	(0)	(0)	(5)	(5)	(0)	0	0	0	0	(0)	(0)	(0)	(0)	1	1	0	0	(5)	(5)	(0)	(0)	0	1	0	0	(0)	(0)	(4)	(0)	(0)
	hemorrhage	0	0	0	0	(0)	(0)	(0)	(0)	(0)	2	0	0	(0)	(0)	(9)	(0)	(0)	0	0	1	0	(0)	(0)	(5)	(0)	0	1	0	0	(0)	(0)	(4)	(0)	(0)
	edema	0	0	0	0	(0)	(0)	(0)	(0)	(0)	2	2	0	(0)	(0)	(9)	(9)	(0)	0	0	0	0	(0)	(0)	(0)	(0)	0	1	0	0	(0)	(0)	(4)	(0)	(0)
	thrombus	0	0	0	0	(0)	(0)	(0)	(0)	(0)	1	0	0	(0)	(0)	(5)	(0)	(0)	0	0	0	0	(0)	(0)	(0)	(0)	0	0	0	0	(0)	(0)	(0)	(0)	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			<20>				<22>				<21>				<26>			
	inflammatory infiltration		0	0	0	0	1	0	0	0	2	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(4)	(4)	(0)	(0)
	perivascular inflammation		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	accumulation of foamy cells		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline membrane		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow			<20>				<22>				<21>				<26>			
	myelofibrosis		0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erythropoiesis:increased		2	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0
			(10)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(15)	(0)	(0)	(0)
lymph node			<20>				<22>				<21>				<26>			
	fibrosis		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105#)

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
lymph node			<20>				<22>				<21>				<26>			
	plasma cell hyperplasia		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)
spleen			<20>				<22>				<21>				<26>			
	atrophy		0	2	0	0	2	1	0	0	0	1	0	0	0	2	0	0
			(0)	(10)	(0)	(0)	(9)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(8)	(0)	(0)
	deposit of melanin		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	extramedullary hematopoiesis		1	5	2	0	1	2	0	0	2	5	2	0	4	7	4	0
			(5)	(25)	(10)	(0)	(5)	(9)	(0)	(0)	(10)	(24)	(10)	(0)	(15)	(27)	(15)	(0)
{Circulatory system}																		
heart			<20>				<22>				<21>				<26>			
	hemorrhage		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	thrombus		1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 17

		Group Name No. of Animals on Study Grade	Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
Organ	Findings		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Circulatory system}																		
heart			<20>				<22>				<21>				<26>			
	mineralization		0 (0)	1 (5)	0 (0)	0 (0)	3 (14)	0 (0)	0 (0)	0 (0)	2 (10)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)
	inflammatory cell nest		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	myocardial fibrosis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)
	arteritis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)	
artery/aort			<20>				<22>				<21>				<26>			
	arteritis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)
{Digestive system}																		
tooth			<20>				<22>				<21>				<26>			
	dysplasia		0 (0)	0 (0)	0 (0)	0 (0)	2 (9)	0 (0)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	2 (8)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
tongue	arteritis		<20>				<22>				<21>				<26>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
salivary gl	atrophy		<20>				<22>				<21>				<26>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		3	0	0	0	2	0	0	0	2	0	0	0	9	0	0	0
			(15)	(0)	(0)	(0)	(9)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(35)	(0)	(0)	(0)
stomach	inflammatory infiltration		<20>				<22>				<21>				<26>			
			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	erosion:forestomach		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	ulcer:forestomach		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach		0	0	0	0	0	0	0	0	1	1	0	0	2	2	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(5)	(0)	(0)	(8)	(8)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
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STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
stomach			<20>				<22>				<21>				<26>			
	erosion:glandular stomach		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hyperplasia:glandular stomach		10	6	0	0	11	6	0	0	15	3	0	0	13	8	0	0
			(50)	(30)	(0)	(0)	(50)	(27)	(0)	(0)	(71)	(14)	(0)	(0)	(50)	(31)	(0)	(0)
small intes			<20>				<22>				<21>				<26>			
	hemorrhage		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
liver			<20>				<22>				<21>				<26>			
	angiectasis		0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0
			(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(4)	(0)	(0)
	thrombus		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:central		1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
			(5)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
	necrosis:focal		1	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0
			(5)	(5)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(4)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
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REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 20

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver	cyst		<20>				<22>				<21>				<26>			
			0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration		1	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0
			(5)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(5)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	granulation		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory cell nest		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	acidophilic cell focus		0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)
	basophilic cell focus		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hepatocellular hypertrophy with atypia:central		0	0	0	0	0	1	0	0	2	5	0	0 *	6	5	4	0 **
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(10)	(24)	(0)	(0)	(23)	(19)	(15)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 21

		Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	20				22				21				26			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<20>				<22>				<21>				<26>			
	vacuolic change:central		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
gall bladd			<20>				<22>				<21>				<26>			
	dilatation		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			<20>				<22>				<21>				<26>			
	amyloid		0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			<20>				<22>				<21>				<26>			
	infarct		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			<20>				<22>				<21>				<26>			
	cyst		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			<20>				<22>				<21>				<26>			
	hyaline droplet		0	2	2	0	1	4	1	0	1	6	1	0	0	4	2	0
			(0)	(10)	(10)	(0)	(5)	(18)	(5)	(0)	(5)	(29)	(5)	(0)	(0)	(15)	(8)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			<20>				<22>				<21>				<26>			
	basophilic change		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of hemosiderin		1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
			(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(4)	(0)
	hyaline cast		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	lymphocytic infiltration		1	1	0	0	4	0	0	0	2	0	0	0	3	0	0	0
			(5)	(5)	(0)	(0)	(18)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(12)	(0)	(0)	(0)
	fibrosis		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory polyp		0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hydronephrosis		0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(5)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)
	dilatation:tubular lumen		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 23

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	glomerulosclerosis		<20>				<22>				<21>				<28>			
			0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)
urin bladd	lymphocytic infiltration		<20>				<22>				<21>				<28>			
			2	0	0	0	4	1	0	0	2	0	0	0	7	0	0	0
			(10)	(0)	(0)	(0)	(18)	(5)	(0)	(0)	(10)	(0)	(0)	(0)	(27)	(0)	(0)	(0)
	simple hyperplasia:transitional epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
{Endocrine system}																		
pituitary	angiectasis		<20>				<22>				<20>				<26>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia		0	0	0	0	0	1	0	0	2	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	Rathke pouch		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study Grade	Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
adrenal			<20>				<22>				<21>				<26>			
	necrosis:zonal		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	spindle-cell hyperplasia		16	4	0	0	19	1	0	0	19	2	0	0	21	4	0	0
			(80)	(20)	(0)	(0)	(86)	(5)	(0)	(0)	(90)	(10)	(0)	(0)	(81)	(15)	(0)	(0)
	hyperplasia:cortical cell		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
{Reproductive system}																		
ovary			<20>				<22>				<21>				<26>			
	hemorrhage		0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(4)	(0)
	thrombus		0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(5)	(0)	(0)	(0)	(0)	(0)
	cyst		0	1	0	0	2	1	0	0	2	2	0	0	0	3	0	0
			(0)	(5)	(0)	(0)	(9)	(5)	(0)	(0)	(10)	(10)	(0)	(0)	(0)	(12)	(0)	(0)
uterus			<20>				<22>				<21>				<26>			
	cystic endometrial hyperplasia		4	3	0	0	3	2	0	0	3	1	0	0	4	1	0	0
			(20)	(15)	(0)	(0)	(14)	(9)	(0)	(0)	(14)	(5)	(0)	(0)	(15)	(4)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 25

		Group Name	Control				320 ppm				800 ppm				2000 ppm			
		No. of Animals on Study	20				22				21				26			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Reproductive system}																		
prep/cli gl			<20>				<22>				<21>				<26>			
	duct ectasia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
{Nervous system}																		
brain			<20>				<22>				<21>				<26>			
	hemorrhage		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	mineralization		1	0	0	0	6	0	0	0	9	0	0	0 *	4	0	0	0
			(5)	(0)	(0)	(0)	(27)	(0)	(0)	(0)	(43)	(0)	(0)	(0)	(15)	(0)	(0)	(0)
{Special sense organs/appendage}																		
Harder gl			<20>				<22>				<21>				<26>			
	degeneration		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
Grade	1 : Slight 2 : Moderate 3 : Marked 4 : Severe																	
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																		
(HPT150)																		

BAIS3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105#)

PAGE : 26

Organ	Findings	Group Name No. of Animals on Study				Control 20				320 ppm 22				800 ppm 21				2000 ppm 26			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Musculoskeletal system}

muscle	mineralization	<20>				<22>				<21>				<26>			
		0	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0
		(0)	(5)	(0)	(0)	(0)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100
 Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square

(HPT150)

BAIS3

APPENDIX L 1

NUMBER OF ANIMALS WITH TUMORS AND NUMBER
OF TUMORS-TIME RELATED, MOUSE : MALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 1

Time-related Weeks	Items	Group Name	Control	320 ppm	800 ppm	2000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		3	0	1	1
	NO. OF ANIMALS WITH TUMORS		1	0	1	0
	NO. OF ANIMALS WITH SINGLE TUMORS		1	0	1	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		1	0	1	0
	NO. OF TOTAL TUMORS		1	0	1	0
53 - 78	NO. OF EXAMINED ANIMALS		6	7	8	8
	NO. OF ANIMALS WITH TUMORS		4	5	6	7
	NO. OF ANIMALS WITH SINGLE TUMORS		2	5	4	4
	NO. OF ANIMALS WITH MULTIPLE TUMORS		2	0	2	3
	NO. OF BENIGN TUMORS		4	1	2	3
	NO. OF MALIGNANT TUMORS		4	4	6	7
	NO. OF TOTAL TUMORS		8	5	8	10
79 - 104	NO. OF EXAMINED ANIMALS		13	8	15	23
	NO. OF ANIMALS WITH TUMORS		13	8	15	23
	NO. OF ANIMALS WITH SINGLE TUMORS		6	8	4	7
	NO. OF ANIMALS WITH MULTIPLE TUMORS		7	0	11	16
	NO. OF BENIGN TUMORS		10	1	7	9
	NO. OF MALIGNANT TUMORS		15	7	22	39
	NO. OF TOTAL TUMORS		25	8	29	48
105 - 105	NO. OF EXAMINED ANIMALS		27	35	26	18
	NO. OF ANIMALS WITH TUMORS		22	30	26	18
	NO. OF ANIMALS WITH SINGLE TUMORS		7	6	7	3
	NO. OF ANIMALS WITH MULTIPLE TUMORS		15	24	19	15
	NO. OF BENIGN TUMORS		26	41	23	16
	NO. OF MALIGNANT TUMORS		21	32	32	24
	NO. OF TOTAL TUMORS		47	73	55	40

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 2

Time-related Weeks	Items	Group Name	Control	320 ppm	800 ppm	2000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		49	50	50	50
	NO. OF ANIMALS WITH TUMORS		40	43	48	48
	NO. OF ANIMALS WITH SINGLE TUMORS		16	19	16	14
	NO. OF ANIMALS WITH MULTIPLE TUMORS		24	24	32	34
	NO. OF BENIGN TUMORS		40	43	32	28
	NO. OF MALIGNANT TUMORS		41	43	61	70
	NO. OF TOTAL TUMORS		81	86	93	98

(HPT070)

BAIS3

APPENDIX L 2

NUMBER OF ANIMALS WITH TUMORS AND NUMBER
OF TUMORS-TIME RELATED, MOUSE : FEMALE
(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 3

Time-related Weeks	Items	Group Name	Control	320 ppm	800 ppm	2000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	0	0	2
	NO. OF ANIMALS WITH TUMORS		0	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	0	0
	NO. OF TOTAL TUMORS		0	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		3	4	4	9
	NO. OF ANIMALS WITH TUMORS		3	2	3	8
	NO. OF ANIMALS WITH SINGLE TUMORS		2	2	1	5
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	2	3
	NO. OF BENIGN TUMORS		0	0	5	3
	NO. OF MALIGNANT TUMORS		4	2	3	10
	NO. OF TOTAL TUMORS		4	2	8	13
79 - 104	NO. OF EXAMINED ANIMALS		16	19	18	16
	NO. OF ANIMALS WITH TUMORS		16	13	17	16
	NO. OF ANIMALS WITH SINGLE TUMORS		9	11	7	6
	NO. OF ANIMALS WITH MULTIPLE TUMORS		7	2	10	10
	NO. OF BENIGN TUMORS		8	3	8	6
	NO. OF MALIGNANT TUMORS		18	12	22	23
	NO. OF TOTAL TUMORS		26	15	30	29
105 - 105	NO. OF EXAMINED ANIMALS		30	27	28	23
	NO. OF ANIMALS WITH TUMORS		22	19	26	22
	NO. OF ANIMALS WITH SINGLE TUMORS		16	12	12	8
	NO. OF ANIMALS WITH MULTIPLE TUMORS		6	7	14	14
	NO. OF BENIGN TUMORS		17	14	19	18
	NO. OF MALIGNANT TUMORS		15	17	29	26
	NO. OF TOTAL TUMORS		32	31	48	44

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 4

Time-related Weeks	Items_____	Group Name	Control	320 ppm	800 ppm	2000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		41	34	46	46
	NO. OF ANIMALS WITH SINGLE TUMORS		27	25	20	19
	NO. OF ANIMALS WITH MULTIPLE TUMORS		14	9	26	27
	NO. OF BENIGN TUMORS		25	17	32	27
	NO. OF MALIGNANT TUMORS		37	31	54	59
	NO. OF TOTAL TUMORS		62	48	86	86

(HPT070)

BAIS3

APPENDIX M 1

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : (2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 49	320 ppm 50	800 ppm 50	2000 ppm 50
{Integumentary system/appandage}						
subcutis			<49>	<50>	<50>	<50>
	fibroma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
	lipoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	hemangioma		1 (2%)	1 (2%)	1 (2%)	0 (0%)
	fibrosarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	liposarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
	leiomyosarcoma		2 (4%)	0 (0%)	2 (4%)	0 (0%)
	rhabdomyosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Respiratory system}						
lung			<49>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		6 (12%)	4 (8%)	4 (8%)	2 (4%)
	bronchiolar-alveolar carcinoma		6 (12%)	6 (12%)	9 (18%)	5 (10%)
{Hematopoietic system}						
bone marrow			<49>	<50>	<50>	<50>
	hemangioma		2 (4%)	2 (4%)	0 (0%)	0 (0%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

(HPT085)

BAIS3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 49	320 ppm 50	800 ppm 50	2000 ppm 50
{Hematopoietic system}						
lymph node			<49>	<50>	<50>	<50>
	malignant lymphoma		3 (6%)	4 (8%)	7 (14%)	4 (8%)
	masteytoma:malignant		1 (2%)	0 (0%)	0 (0%)	0 (0%)
spleen			<49>	<50>	<50>	<50>
	hemangioma		3 (6%)	5 (10%)	1 (2%)	1 (2%)
	malignant lymphoma		3 (6%)	1 (2%)	2 (4%)	1 (2%)
	masteytoma:malignant		0 (0%)	1 (2%)	0 (0%)	1 (2%)
	hemangiosarcoma		0 (0%)	2 (4%)	1 (2%)	0 (0%)
{Digestive system}						
stomach			<49>	<50>	<50>	<50>
	squamous cell papilloma		0 (0%)	0 (0%)	2 (4%)	2 (4%)
liver			<49>	<50>	<50>	<50>
	hemangioma		3 (6%)	2 (4%)	3 (6%)	2 (4%)
	hepatocellular adenoma		17 (35%)	21 (42%)	20 (40%)	16 (32%)
	histiocytic sarcoma		3 (6%)	2 (4%)	1 (2%)	1 (2%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
	hepatocellular carcinoma		15 (31%)	15 (30%)	23 (46%)	31 (62%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

(HPT085)

BAIS3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF₁
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 49	320 ppm 50	800 ppm 50	2000 ppm 50
{Digestive system}						
liver			<49>	<50>	<50>	<50>
	hepatoblastoma		1 (2%)	10 (20%)	12 (24%)	25 (50%)
pancreas			<48>	<50>	<50>	<50>
	islet cell adenoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	acinar cell adenoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Urinary system}						
kidney			<49>	<50>	<50>	<50>
	histiocytic sarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
ureter			<49>	<50>	<50>	<50>
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
urin bladd			<49>	<50>	<50>	<50>
	transitional cell papilloma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Endocrine system}						
pituitary			<48>	<50>	<50>	<49>
	adenoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Reproductive system}						
epididymis			<49>	<50>	<50>	<50>
	histiocytic sarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
prostate			<49>	<50>	<50>	<50>
	histiocytic sarcoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
{Nervous system}						
brain			<49>	<50>	<50>	<50>
	medulloblastoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

STUDY NO. : 0329
 ANIMAL : MOUSE CrJ:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name No. of animals on Study	Control 49	320 ppm 50	800 ppm 50	2000 ppm 50
{Special sense organs/appendage}						
Harder gl	adenoma		<49> 2 (4%)	<50> 8 (16%)	<50> 0 (0%)	<50> 4 (8%)
{Musculoskeletal system}						
bone	osteosarcoma		<49> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
{Body cavities}						
peritoneum	hemangioma		<49> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	leiomyosarcoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
retroperit	hemangiosarcoma		<49> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
adipose	histiocytic sarcoma		<49> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
< a > a : Number of animals examined at the site b (c) b : Number of animals with neoplasm c : b / a * 100						
(HPT085)						BAIS3

APPENDIX M 2

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : (2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	320 ppm 50	800 ppm 50	2000 ppm 50
{Integumentary system/appandage}						
skin/app			<50>	<50>	<50>	<50>
	sebaceous adenoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
subcutis			<50>	<50>	<50>	<50>
	hemangioma		1 (2%)	0 (0%)	1 (2%)	0 (0%)
	fibrosarcoma		1 (2%)	1 (2%)	1 (2%)	0 (0%)
	leiomyosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
	malignant fibrous histiocytoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
	histiocytic sarcoma		0 (0%)	0 (0%)	0 (0%)	1 (2%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Respiratory system}						
lung			<50>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		3 (6%)	0 (0%)	3 (6%)	0 (0%)
	bronchiolar-alveolar carcinoma		0 (0%)	1 (2%)	3 (6%)	0 (0%)
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	hemangioma		1 (2%)	0 (0%)	2 (4%)	0 (0%)
lymph node			<50>	<50>	<50>	<50>
	malignant lymphoma		16 (32%)	14 (28%)	17 (34%)	13 (26%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	320 ppm 50	800 ppm 50	2000 ppm 50
{Hematopoietic system}						
spleen			<50>	<50>	<50>	<50>
	hemangioma		2 (4%)	1 (2%)	2 (4%)	0 (0%)
	malignant lymphoma		1 (2%)	3 (6%)	4 (8%)	1 (2%)
	hemangiosarcoma		1 (2%)	0 (0%)	0 (0%)	1 (2%)
{Digestive system}						
stomach			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 (0%)	1 (2%)	0 (0%)	2 (4%)
liver			<50>	<50>	<50>	<50>
	hemangioma		1 (2%)	3 (6%)	3 (6%)	0 (0%)
	hepatocellular adenoma		5 (10%)	5 (10%)	17 (34%)	16 (32%)
	histiocytic sarcoma		0 (0%)	3 (6%)	2 (4%)	1 (2%)
	hepatocellular carcinoma		1 (2%)	3 (6%)	15 (30%)	31 (62%)
	hepatoblastoma		0 (0%)	0 (0%)	0 (0%)	2 (4%)
	hepatocholangiocellular carcinoma		0 (0%)	0 (0%)	1 (2%)	0 (0%)
gall bladd			<50>	<50>	<50>	<50>
	papillary adenoma		0 (0%)	1 (2%)	0 (0%)	0 (0%)
pancreas			<50>	<50>	<50>	<50>
	acinar cell adenoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

(HPT085)

BAIS3

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name No. of animals on Study	Control 50	320 ppm 50	800 ppm 50	2000 ppm 50
{Endocrine system}						
pituitary	adenoma		<50> 5 (10%)	<50> 3 (6%)	<49> 2 (4%)	<50> 5 (10%)
	hemangioma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
adrenal	pheochromocytoma		<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
{Reproductive system}						
ovary	cystadenoma		<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	luteoma		1 (2%)	0 (0%)	0 (0%)	0 (0%)
uterus	endometrial stromal polyp		<50> 0 (0%)	<50> 2 (4%)	<50> 1 (2%)	<50> 1 (2%)
	histiocytic sarcoma		10 (20%)	5 (10%)	10 (20%)	6 (12%)
vagina	basal cell carcinoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
	adenocarcinoma		<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
{Nervous system}						
spinal cord	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
	histiocytic sarcoma		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 8

Organ	Findings	Group Name No. of animals on Study	Control 50	320 ppm 50	800 ppm 50	2000 ppm 50
{Special sense organs/appendage}						
Harder gl	adenoma		<50> 2 (4%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
{Musculoskeletal system}						
bone	osteosarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
{Body cavities}						
peritoneum	sarcoma:NOS		<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
	hemangiosarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
retroperit	hemangiosarcoma		<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)

< a > a : Number of animals examined at the site
 b (c) b : Number of animals with neoplasm c : b / a * 100

(HPT085)

BAIS3

APPENDIX N 1

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

MOUSE : MALE

(2-YEAR STUDY)

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	6/49(12.2)	4/50(8.0)	4/50(8.0)	2/50(4.0)
Adjusted rates(b)	20.69	11.43	8.89	9.09
Terminal rates(c)	5/27(18.5)	4/35(11.4)	1/26(3.8)	0/18(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8712			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1632			
Fisher Exact test(e)		P = 0.3574	P = 0.3574	P = 0.1278
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	6/49(12.2)	6/50(12.0)	9/50(18.0)	5/50(10.0)
Adjusted rates(b)	18.52	14.29	11.54	11.11
Terminal rates(c)	5/27(18.5)	5/35(14.3)	3/26(11.5)	2/18(11.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3715			
Prevalence method(d)	P = 0.5019			
Combined analysis(d)	P = 0.4350			
Cochran-Armitage test(e)	P = 0.7268			
Fisher Exact test(e)		P = 0.6346	P = 0.3030	P = 0.4856
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	11/49(22.4)	9/50(18.0)	13/50(26.0)	7/50(14.0)
Adjusted rates(b)	34.48	22.86	20.00	18.18
Terminal rates(c)	9/27(33.3)	8/35(22.9)	4/26(15.4)	2/18(11.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3715			
Prevalence method(d)	P = 0.7558			
Combined analysis(d)	P = 0.6783			
Cochran-Armitage test(e)	P = 0.3425			
Fisher Exact test(e)		P = 0.3819	P = 0.4298	P = 0.2038

(HPT360A)

BAIS3

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	3/49(6.1)	4/50(8.0)	7/50(14.0)	4/50(8.0)
Adjusted rates(b)	3.70	8.57	19.23	6.90
Terminal rates(c)	1/27(3.7)	3/35(8.6)	5/26(19.2)	1/18(5.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3417			
Prevalence method(d)	P = 0.2537			
Combined analysis(d)	P = 0.2276			
Cochran-Armitage test(e)	P = 0.8023			
Fisher Exact test(e)		P = 0.5114	P = 0.1672	P = 0.5114
SITE : spleen TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/49(6.1)	5/50(10.0)	1/50(2.0)	1/50(2.0)
Adjusted rates(b)	7.14	14.29	3.85	5.56
Terminal rates(c)	1/27(3.7)	5/35(14.3)	1/26(3.8)	1/18(5.6)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8979			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1418			
Fisher Exact test(e)		P = 0.3689	P = 0.3010	P = 0.3010
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	3/49(6.1)	1/50(2.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	11.11	2.86	7.69	5.56
Terminal rates(c)	3/27(11.1)	1/35(2.9)	2/26(7.7)	1/18(5.6)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5996			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4272			
Fisher Exact test(e)		P = 0.3010	P = 0.4903	P = 0.3010

(HPT380A)

BAIS3

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : spleen TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	3/49(6.1)	7/50(14.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	7.14	20.00	3.85	5.56
Terminal rates(c)	1/27(3.7)	7/35(20.0)	1/26(3.8)	1/18(5.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3254			
Prevalence method(d)	P = 0.9304			
Combined analysis(d)	P = 0.9116			
Cochran-Armitage test(e)	P = 0.1003			
Fisher Exact test(e)		P = 0.1672	P = 0.4903	P = 0.3010
SITE : liver TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/49(6.1)	2/50(4.0)	3/50(6.0)	2/50(4.0)
Adjusted rates(b)	10.71	4.00	11.54	4.26
Terminal rates(c)	2/27(7.4)	1/35(2.9)	3/26(11.5)	0/18(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5493			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.7328			
Fisher Exact test(e)		P = 0.4903	P = 0.6708	P = 0.4903
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	17/49(34.7)	21/50(42.0)	20/50(40.0)	16/50(32.0)
Adjusted rates(b)	48.28	57.14	61.54	61.11
Terminal rates(c)	13/27(48.1)	20/35(57.1)	16/26(61.5)	11/18(61.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3442			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5253			
Fisher Exact test(e)		P = 0.2945	P = 0.3679	P = 0.4716

(HPT360A)

BAIS3

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : liver TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	3/49(6.1)	2/50(4.0)	1/50(2.0)	1/50(2.0)
Adjusted rates(b)	0.0	2.86	2.94	0.0
Terminal rates(c)	0/27(0.0)	1/35(2.9)	0/26(0.0)	0/18(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8181			
Prevalence method(d)	P = 0.5302			
Combined analysis(d)	P = 0.8213			
Cochran-Armitage test(e)	P = 0.2997			
Fisher Exact test(e)		P = 0.4903	P = 0.3010	P = 0.3010
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	15/49(30.6)	15/50(30.0)	23/50(46.0)	31/50(62.0)
Adjusted rates(b)	33.33	38.89	65.38	85.00
Terminal rates(c)	8/27(29.6)	13/35(37.1)	17/26(65.4)	15/18(83.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2452			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P < 0.0001**			
Cochran-Armitage test(e)	P = 0.0003**			
Fisher Exact test(e)		P = 0.6121	P = 0.0856	P = 0.0016**
SITE : liver TUMOR : hepatoblastoma				
Tumor rate				
Overall rates(a)	1/49(2.0)	10/50(20.0)	12/50(24.0)	25/50(50.0)
Adjusted rates(b)	3.70	11.43	11.54	33.33
Terminal rates(c)	1/27(3.7)	4/35(11.4)	3/26(11.5)	5/18(27.8)
Statistical analysis				
Peto test				
Standard method(d)	P < 0.0001**			
Prevalence method(d)	P = 0.0011**			
Combined analysis(d)	P < 0.0001**			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.0043**	P = 0.0010**	P < 0.0001**

(HPT360A)

BAIS3

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : liver TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	4/49(8.2)	2/50(4.0)	3/50(6.0)	3/50(6.0)
Adjusted rates(b)	10.71	4.00	11.54	4.35
Terminal rates(c)	2/27(7.4)	1/35(2.9)	3/26(11.5)	0/18(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2640			
Prevalence method(d)	P = 0.5492			
Combined analysis(d)	P = 0.4473			
Cochran-Armitage test(e)	P = 0.8856			
Fisher Exact test(e)		P = 0.3292	P = 0.4886	P = 0.4886
SITE : liver TUMOR : hepatocellular carcinoma, hepatoblastoma				
Tumor rate				
Overall rates(a)	16/49(32.7)	23/50(46.0)	31/50(62.0)	41/50(82.0)
Adjusted rates(b)	36.67	44.44	65.38	85.71
Terminal rates(c)	9/27(33.3)	15/35(42.9)	17/26(65.4)	15/18(83.3)
Statistical analysis				
Peto test				
Standard method(d)	P < 0.0001**			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P < 0.0001**			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.1244	P = 0.0031**	P < 0.0001**
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma, hepatoblastoma				
Tumor rate				
Overall rates(a)	26/49(53.1)	34/50(68.0)	41/50(82.0)	45/50(90.0)
Adjusted rates(b)	67.86	72.97	96.15	100.00
Terminal rates(c)	18/27(66.7)	25/35(71.4)	25/26(96.2)	18/18(100.0)
Statistical analysis				
Peto test				
Standard method(d)	P < 0.0001**			
Prevalence method(d)	P = 0.0001**			
Combined analysis(d)	P < 0.0001**			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.0941	P = 0.0019**	P < 0.0001**

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : Harderian gland				
TUMOR : adenoma				
Tumor rate				
Overall rates(a)	2/49(4.1)	8/50(16.0)	0/50(0.0)	4/50(8.0)
Adjusted rates(b)	6.90	22.86	0.0	11.11
Terminal rates(c)	1/27(3.7)	8/35(22.9)	0/26(0.0)	2/18(11.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4124			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8797			
Fisher Exact test(e)		P = 0.0491*	P = 0.2424	P = 0.3485

(HPT360A)

BAIS3

(a): Number of tumor-bearing animals/number of animals examined at the site.
(b): Kaplan-Meire estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.
(c): Observed tumor incidence at terminal kill.
(d): Beneath the control incidence are the P-values associated with the trend test.
Standard method : Death analysis
Prevalence method : Incidental tumor test
Combined analysis : Death analysis + Incidental tumor test
(e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.
? : The conditional probabilities of the largest and smallest possible out comes can not estimated or this P-value is beyond the estimated P-value.
----- : There is no data which should be statistical analysis.
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$
N.C.:Statistical value cannot be calculated and was not significant.

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	6/49(12.2)	8/50(16.0)	3/50(6.0)	3/50(6.0)
Adjusted rates(b)	16.67	20.00	11.54	6.38
Terminal rates(c)	3/27(11.1)	7/35(20.0)	3/26(11.5)	1/18(5.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 1.0000 ?			
Prevalence method(d)	P = 0.8077			
Combined analysis(d)	P = 0.8686			
Cochran-Armitage test(e)	P = 0.1431			
Fisher Exact test(e)		P = 0.4029	P = 0.2333	P = 0.2333
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	5/49(10.2)	3/50(6.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	3.70	5.71	5.88	0.0
Terminal rates(c)	1/27(3.7)	2/35(5.7)	1/26(3.8)	0/18(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9037			
Prevalence method(d)	P = 0.7577			
Combined analysis(d)	P = 0.9357			
Cochran-Armitage test(e)	P = 0.0971			
Fisher Exact test(e)		P = 0.3461	P = 0.2096	P = 0.0976

(HPT360A)

BAIS3

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : ALL SITE				
TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	6/49(12.2)	5/50(10.0)	9/50(18.0)	5/50(10.0)
Adjusted rates(b)	14.81	11.43	26.92	11.11
Terminal rates(c)	4/27(14.8)	4/35(11.4)	7/26(26.9)	2/18(11.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3417			
Prevalence method(d)	P = 0.3597			
Combined analysis(d)	P = 0.3090			
Cochran-Armitage test(e)	P = 0.8222			
Fisher Exact test(e)		P = 0.4856	P = 0.3030	P = 0.4856

(HPT360A)

BAIS3

(a): Number of tumor-bearing animals/number of animals examined at the site.

(b): Kaplan-Meire estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.

(c): Observed tumor incidence at terminal kill.

(d): Beneath the control incidence are the P-values associated with the trend test.

Standard method : Death analysis

Prevalence method : Incidental tumor test

Combined analysis : Death analysis + Incidental tumor test

(e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.

? : The conditional probabilities of the largest and smallest possible outcomes can not be estimated or this P-value is beyond the estimated P-value.

----- : There is no data which should be statistical analysis.

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

N.C. : Statistical value cannot be calculated and was not significant.

APPENDIX N 2

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

MOUSE : FEMALE

(2-YEAR STUDY)

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	0/50(0.0)	3/50(6.0)	0/50(0.0)
Adjusted rates(b)	9.68	0.0	10.00	0.0
Terminal rates(c)	2/30(6.7)	0/28(0.0)	1/29(3.4)	0/24(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8529			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2135			
Fisher Exact test(e)		P = 0.1212	P = 0.6611	P = 0.1212
SITE : lung TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	1/50(2.0)	3/50(6.0)	0/50(0.0)
Adjusted rates(b)	0.0	3.70	6.98	0.0
Terminal rates(c)	0/30(0.0)	1/28(3.6)	1/29(3.4)	0/24(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.5013			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.7903			
Fisher Exact test(e)		P = 0.5000	P = 0.1212	P = N. C.
SITE : lung TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	6/50(12.0)	0/50(0.0)
Adjusted rates(b)	9.68	3.70	14.71	0.0
Terminal rates(c)	2/30(6.7)	1/28(3.6)	2/29(6.9)	0/24(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8050			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2524			
Fisher Exact test(e)		P = 0.3087	P = 0.2435	P = 0.1212

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : lymph node TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	16/50(32.0)	14/50(28.0)	17/50(34.0)	13/50(26.0)
Adjusted rates(b)	20.00	29.63	28.57	21.74
Terminal rates(c)	6/30(20.0)	8/28(28.6)	8/29(27.6)	5/24(20.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3239			
Prevalence method(d)	P = 0.5809			
Combined analysis(d)	P = 0.4163			
Cochran-Armitage test(e)	P = 0.5807			
Fisher Exact test(e)		P = 0.4138	P = 0.5000	P = 0.3299
SITE : spleen TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	3/50(6.0)	4/50(8.0)	1/50(2.0)
Adjusted rates(b)	3.33	3.70	14.29	4.35
Terminal rates(c)	1/30(3.3)	1/28(3.6)	4/29(13.8)	1/24(4.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7424			
Prevalence method(d)	P = 0.3739			
Combined analysis(d)	P = 0.5283			
Cochran-Armitage test(e)	P = 0.6994			
Fisher Exact test(e)		P = 0.3087	P = 0.1811	P = 0.7525
SITE : spleen TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	3/50(6.0)	1/50(2.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	7.32	3.70	4.08	0.0
Terminal rates(c)	0/30(0.0)	1/28(3.6)	1/29(3.4)	0/24(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1025			
Prevalence method(d)	P = 0.9312			
Combined analysis(d)	P = 0.7289			
Cochran-Armitage test(e)	P = 0.4354			
Fisher Exact test(e)		P = 0.3087	P = 0.5000	P = 0.3087

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : liver TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	1/50(2.0)	3/50(6.0)	3/50(6.0)	0/50(0.0)
Adjusted rates(b)	3.33	11.11	4.26	0.0
Terminal rates(c)	1/30(3.3)	3/28(10.7)	1/29(3.4)	0/24(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3739			
Prevalence method(d)	P = 0.8393			
Combined analysis(d)	P = 0.8100			
Cochran-Armitage test(e)	P = 0.2875			
Fisher Exact test(e)		P = 0.3087	P = 0.3087	P = 0.5000
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	5/50(10.0)	17/50(34.0)	16/50(32.0)
Adjusted rates(b)	16.67	14.81	44.83	48.15
Terminal rates(c)	5/30(16.7)	4/28(14.3)	12/29(41.4)	12/24(50.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.0001**			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0020**			
Fisher Exact test(e)		P = 0.6297	P = 0.0035**	P = 0.0064**
SITE : liver TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	0/50(0.0)	3/50(6.0)	2/50(4.0)	1/50(2.0)
Adjusted rates(b)	0.0	0.0	3.57	3.33
Terminal rates(c)	0/30(0.0)	0/28(0.0)	1/29(3.4)	0/24(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.7620			
Prevalence method(d)	P = 0.1147			
Combined analysis(d)	P = 0.4212			
Cochran-Armitage test(e)	P = 0.9478			
Fisher Exact test(e)		P = 0.1212	P = 0.2475	P = 0.5000

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	3/50(6.0)	15/50(30.0)	31/50(62.0)
Adjusted rates(b)	2.94	11.11	36.67	79.17
Terminal rates(c)	0/30(0.0)	3/28(10.7)	10/29(34.5)	19/24(79.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0007**			
Prevalence method(d)	P < 0.0001**?			
Combined analysis(d)	P < 0.0001**?			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.3087	P = 0.0001**	P < 0.0001**
SITE : liver TUMOR : hepatocellular carcinoma, hepatoblastoma				
Tumor rate				
Overall rates(a)	1/50(2.0)	3/50(6.0)	15/50(30.0)	33/50(66.0)
Adjusted rates(b)	2.94	11.11	36.67	79.17
Terminal rates(c)	0/30(0.0)	3/28(10.7)	10/29(34.5)	19/24(79.2)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0002**			
Prevalence method(d)	P < 0.0001**?			
Combined analysis(d)	P < 0.0001**?			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.3087	P = 0.0001**	P < 0.0001**
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma, hepatoblastoma				
Tumor rate				
Overall rates(a)	6/50(12.0)	8/50(16.0)	29/50(58.0)	39/50(78.0)
Adjusted rates(b)	17.65	25.93	70.00	96.43
Terminal rates(c)	5/30(16.7)	7/28(25.0)	19/29(65.5)	23/24(95.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0002**			
Prevalence method(d)	P < 0.0001**?			
Combined analysis(d)	P < 0.0001**?			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.3871	P < 0.0001**	P < 0.0001**

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 11

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	5/50(10.0)	3/50(6.0)	2/49(4.1)	5/50(10.0)
Adjusted rates(b)	13.33	7.41	7.14	21.74
Terminal rates(c)	4/30(13.3)	2/28(7.1)	2/29(6.9)	5/24(20.8)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5321			
Prevalence method(d)	P = 0.1982			
Combined analysis(d)	P = 0.2475			
Cochran-Armitage test(e)	P = 0.7613			
Fisher Exact test(e)		P = 0.3575	P = 0.2264	P = 0.6297
SITE : uterus TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	10/50(20.0)	5/50(10.0)	10/50(20.0)	6/50(12.0)
Adjusted rates(b)	16.67	7.41	14.29	7.41
Terminal rates(c)	5/30(16.7)	2/28(7.1)	5/29(17.2)	2/24(8.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3245			
Prevalence method(d)	P = 0.8042			
Combined analysis(d)	P = 0.5982			
Cochran-Armitage test(e)	P = 0.5070			
Fisher Exact test(e)		P = 0.1312	P = 0.5984	P = 0.2070

(HPT360A)

BAIS3

- (a): Number of tumor-bearing animals/number of animals examined at the site.
(b): Kaplan-Meire estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.
(c): Observed tumor incidence at terminal kill.
(d): Beneath the control incidence are the P-values associated with the trend test.
Standard method : Death analysis
Prevalence method : Incidental tumor test
Combined analysis : Death analysis + Incidental tumor test
(e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.
? : The conditional probabilities of the largest and smallest possible outcomes cannot be estimated or this P-value is beyond the estimated P-value.
----- : There is no data which should be statistical analysis.
Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$
N.C. : Statistical value cannot be calculated and was not significant.

STUDY No. : 0329
ANIMAL : MOUSE Crj:BDF1
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	5/50(10.0)	3/50(6.0)	6/50(12.0)	0/50(0.0)
Adjusted rates(b)	12.20	11.11	10.71	0.0
Terminal rates(c)	2/30(6.7)	3/28(10.7)	3/29(10.3)	0/24(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3739			
Prevalence method(d)	P = 0.9721			
Combined analysis(d)	P = 0.9642			
Cochran-Armitage test(e)	P = 0.0598			
Fisher Exact test(e)		P = 0.3575	P = 0.5000	P = 0.0281*
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	10/50(20.0)	8/50(16.0)	12/50(24.0)	10/50(20.0)
Adjusted rates(b)	16.67	7.41	17.86	10.00
Terminal rates(c)	5/30(16.7)	2/28(7.1)	6/29(20.7)	2/24(8.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1382			
Prevalence method(d)	P = 0.6295			
Combined analysis(d)	P = 0.2634			
Cochran-Armitage test(e)	P = 0.8232			
Fisher Exact test(e)		P = 0.3976	P = 0.4048	P = 0.5984

(HPT360A)

BAIS3

STUDY No. : 0329
 ANIMAL : MOUSE Crj:BDF1
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	320 ppm	800 ppm	2000 ppm
SITE : ALL SITE				
TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	17/50(34.0)	17/50(34.0)	21/50(42.0)	14/50(28.0)
Adjusted rates(b)	23.33	33.33	42.86	26.09
Terminal rates(c)	7/30(23.3)	9/28(32.1)	12/29(41.4)	6/24(25.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3969			
Prevalence method(d)	P = 0.5230			
Combined analysis(d)	P = 0.4407			
Cochran-Armitage test(e)	P = 0.4833			
Fisher Exact test(e)		P = 0.5835	P = 0.2684	P = 0.3329

(HPT360A)

BAIS3

(a): Number of tumor-bearing animals/number of animals examined at the site.
 (b): Kaplan-Meire estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.
 (c): Observed tumor incidence at terminal kill.
 (d): Beneath the control incidence are the P-values associated with the trend test.
 Standard method : Death analysis
 Prevalence method : Incidental tumor test
 Combined analysis : Death analysis + Incidental tumor test
 (e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.
 ? : The conditional probabilities of the largest and smallest possible out comes can not estimated or this P-value is beyond the estimated P-value.
 ----- : There is no data which should be statistical analysis.
 Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$
 N.C. :Statistical value cannot be calculated and was not significant.

APPENDIX O 1

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 1

Group Name No. of Animals on Study		Control 49	320 ppm 50	800 ppm 50	2000 ppm 50
Organ	Findings				
{Integumentary system/appandage}					
subcutis		<49>	<50>	<50>	<50>
	metastasis:liver tumor	1	0	0	0
{Respiratory system}					
nasal cavit		<49>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	0	1
lung		<49>	<50>	<50>	<50>
	leukemic cell infiltration	3	1	2	2
	metastasis:liver tumor	5	6	6	15
	metastasis:subcutis tumor	1	0	1	0
	metastasis:bone tumor	1	0	0	0
	metastasis:prostate tumor	0	0	1	0
{Hematopoietic system}					
bone marrow		<49>	<50>	<50>	<50>
	leukemic cell infiltration	3	2	1	2
	metastasis:liver tumor	0	1	0	0
	metastasis:subcutis tumor	0	0	1	0
lymph node		<49>	<50>	<50>	<50>
	leukemic cell infiltration	2	1	0	2
	metastasis:liver tumor	1	0	0	1
	metastasis:subcutis tumor	0	0	1	0
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study	Control 49	320 ppm 50	800 ppm 50	2000 ppm 50
{Hematopoietic system}						
lymph node			<49>	<50>	<50>	<50>
	metastasis:prostate tumor		0	0	1	0
spleen			<49>	<50>	<50>	<50>
	leukemic cell infiltration		2	3	5	3
{Circulatory system}						
heart			<49>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	1
	metastasis:lung tumor		0	1	0	0
{Digestive system}						
salivary gl			<49>	<50>	<50>	<50>
	leukemic cell infiltration		2	0	0	3
	metastasis:subcutis tumor		0	0	1	0
stomach			<49>	<50>	<50>	<50>
	leukemic cell infiltration		2	0	0	1
	metastasis:liver tumor		0	0	0	1
small intes			<49>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	0	0
liver			<49>	<50>	<50>	<50>
	leukemic cell infiltration		3	4	2	3
	metastasis:subcutis tumor		1	0	0	0
	metastasis:bone tumor		1	0	0	0

< a > a : Number of animals examined at the site
 b b : Number of animals with lesion

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 3

Group Name No. of Animals on Study		Control 49	320 ppm 50	800 ppm 50	2000 ppm 50
Organ	Findings				
{Digestive system}					
liver		<49>	<50>	<50>	<50>
	metastasis:prostate tumor	0	0	1	0
gall bladd		<49>	<49>	<50>	<50>
	leukemic cell infiltration	1	0	0	0
pancreas		<49>	<50>	<50>	<50>
	leukemic cell infiltration	1	0	0	1
	metastasis:liver tumor	0	1	0	3
{Urinary system}					
kidney		<49>	<50>	<50>	<50>
	leukemic cell infiltration	2	1	2	4
	metastasis:liver tumor	0	1	1	0
	metastasis:subcutis tumor	1	0	0	0
urin bladd		<49>	<50>	<50>	<50>
	leukemic cell infiltration	2	1	0	2
	metastasis:liver tumor	0	0	1	0
{Reproductive system}					
testis		<49>	<50>	<50>	<50>
	leukemic cell infiltration	0	0	0	1
epididymis		<49>	<50>	<50>	<50>
	leukemic cell infiltration	2	1	1	1
< a >		a : Number of animals examined at the site			
b		b : Number of animals with lesion			

STUDY NO. : 0329
 ANIMAL : MOUSE CrJ:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 4

		Group Name No. of Animals on Study	Control 49	320 ppm 50	800 ppm 50	2000 ppm 50
Organ_____	Findings_____					
{Reproductive system}						
epididymis			<49>	<50>	<50>	<50>
	metastasis:liver tumor		1	1	0	0
semin ves			<49>	<50>	<50>	<50>
	leukemic cell infiltration		2	0	0	0
prostate			<49>	<50>	<50>	<50>
	leukemic cell infiltration		2	0	1	1
{Special sense organs/appendage}						
Harder gl			<49>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	2
{Body cavities}						
pleura			<49>	<50>	<50>	<50>
	metastasis:lung tumor		0	1	1	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					
{JPT150}						

BAIS3

APPENDIX O 2

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE: ALL ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
ANIMAL : MOUSE CrJ:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 50	320 ppm 50	800 ppm 50	2000 ppm 50
{Integumentary system/appandage}						
subcutis	leukemic cell infiltration		<50> 3	<50> 4	<50> 3	<50> 0
{Respiratory system}						
nasal cavit	leukemic cell infiltration		<50> 3	<50> 0	<50> 0	<50> 2
	metastasis:uterus tumor		1	0	0	0
	metastasis:subcutis tumor		0	0	0	1
	metastasis:peripheral nerve tumor		0	0	0	1
larynx	leukemic cell infiltration		<50> 0	<50> 1	<50> 1	<50> 1
trachea	leukemic cell infiltration		<50> 2	<50> 1	<50> 1	<50> 1
lung	leukemic cell infiltration		<50> 11	<50> 10	<50> 8	<50> 11
	metastasis:liver tumor		0	3	2	1
	metastasis:uterus tumor		3	2	2	4
	metastasis:subcutis tumor		1	0	0	0
	metastasis:bone tumor		1	0	0	0
	metastasis:spinal code tumor		0	0	0	1
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<50> 6	<50> 4	<50> 9	<50> 6
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study	Control 50	320 ppm 50	800 ppm 50	2000 ppm 50
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		2	0	1	1
lymph node			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	1	0	0
	metastasis:uterus tumor		3	0	0	2
	metastasis:subcutis tumor		1	0	0	0
thymus			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
spleen			<50>	<50>	<50>	<50>
	leukemic cell infiltration		9	8	7	6
	metastasis:liver tumor		0	3	0	0
	metastasis:uterus tumor		1	0	0	1
{Circulatory system}						
heart			<50>	<50>	<50>	<50>
	leukemic cell infiltration		5	4	4	3
	metastasis:uterus tumor		0	0	1	0
{Digestive system}						
tongue			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	2	1	0

< a > a : Number of animals examined at the site
b b : Number of animals with lesion

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study	Control 50	320 ppm 50	800 ppm 50	2000 ppm 50
{Digestive system}						
salivary gl			<50>	<50>	<50>	<50>
	leukemic cell infiltration		9	4	4	6
stomach			<50>	<50>	<50>	<50>
	leukemic cell infiltration		9	4	6	4
	metastasis:uterus tumor		1	2	0	2
small intes			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
large intes			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	1
liver			<50>	<50>	<50>	<50>
	leukemic cell infiltration		11	11	10	7
	metastasis:uterus tumor		6	3	5	5
	metastasis:subcutis tumor		1	0	0	1
gall bladd			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	2	0	1
pancreas			<50>	<50>	<50>	<50>
	leukemic cell infiltration		6	4	5	2
	metastasis:uterus tumor		0	1	0	2
{Urinary system}						
kidney			<50>	<50>	<50>	<50>
	leukemic cell infiltration		9	5	4	5
	metastasis:uterus tumor		2	0	0	3
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 8

Group Name No. of Animals on Study		Control 50	320 ppm 50	800 ppm 50	2000 ppm 50
Organ	Findings				
{Urinary system}					
kidney		<50>	<50>	<50>	<50>
	metastasis:subcutis tumor	0	0	0	1
urin bladd		<50>	<50>	<50>	<50>
	leukemic cell infiltration	8	6	4	5
	metastasis:uterus tumor	1	0	1	1
{Endocrine system}					
pituitary		<50>	<50>	<50>	<50>
	metastasis:peripheral nerve tumor	0	0	0	1
thyroid		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	3	1	1
	metastasis:liver tumor	0	0	1	0
adrenal		<50>	<50>	<50>	<50>
	leukemic cell infiltration	1	3	1	5
	metastasis:peritoneum tumor	0	0	0	1
{Reproductive system}					
ovary		<50>	<50>	<50>	<50>
	leukemic cell infiltration	10	6	7	7
	metastasis:uterus tumor	5	3	3	6
	metastasis:subcutis tumor	1	0	0	1
uterus		<50>	<50>	<50>	<50>
	leukemic cell infiltration	5	0	1	4
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0-105W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study	Control 50	320 ppm 50	800 ppm 50	2000 ppm 50
{Reproductive system}						
vagina			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	3	0	2
	metastasis:uterus tumor		1	0	2	1
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	2	1	3
	metastasis:peripheral nerve tumor		0	0	0	1
spinal cord			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	1	0	1
	metastasis:peripheral nerve tumor		0	0	0	1
{Special sense organs/appendage}						
eye			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	1	1
Harder gl			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	3	3	3
	metastasis:uterus tumor		1	0	0	0
{Musculoskeletal system}						
muscle			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	3	1	3
bone			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	1	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
ALL ANIMALS (0-105W)

PAGE : 10

		Group Name	Control	320 ppm	800 ppm	2000 ppm
		No. of Animals on Study	50	50	50	50
Organ	Findings					
{Body cavities}						
peritoneum			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	1	3	1
	metastasis:uterus tumor		0	1	0	0
retroperit			<50>	<50>	<50>	<50>
	metastasis:uterus tumor		1	0	0	0
adipose			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					
(JPT150)						BAIS3

APPENDIX O 3

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 1

Group Name No. of Animals on Study		Control 27	320 ppm 35	800 ppm 26	2000 ppm 18
Organ	Findings				
{Respiratory system}					
lung		<27>	<35>	<26>	<18>
	leukemic cell infiltration	1	0	1	0
	metastasis:liver tumor	2	2	4	6
	metastasis:prostate tumor	0	0	1	0
{Hematopoietic system}					
bone marrow		<27>	<35>	<26>	<18>
	leukemic cell infiltration	1	2	1	1
lymph node		<27>	<35>	<26>	<18>
	leukemic cell infiltration	2	1	0	1
	metastasis:liver tumor	0	0	0	1
	metastasis:subcutis tumor	0	0	1	0
	metastasis:prostate tumor	0	0	1	0
spleen		<27>	<35>	<26>	<18>
	leukemic cell infiltration	0	2	4	1
{Digestive system}					
salivary gl		<27>	<35>	<26>	<18>
	leukemic cell infiltration	0	0	0	2
stomach		<27>	<35>	<26>	<18>
	leukemic cell infiltration	1	0	0	0
liver		<27>	<35>	<26>	<18>
	leukemic cell infiltration	1	3	1	1
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 2

Group Name No. of Animals on Study		Control 27	320 ppm 35	800 ppm 26	2000 ppm 18
Organ	Findings				
{Digestive system}					
liver		<27>	<35>	<26>	<18>
	metastasis:prostate tumor	0	0	1	0
pancreas		<27>	<35>	<26>	<18>
	leukemic cell infiltration	0	0	0	1
	metastasis:liver tumor	0	0	0	1
{Urinary system}					
kidney		<27>	<35>	<26>	<18>
	leukemic cell infiltration	0	0	1	2
	metastasis:prostate tumor	0	0	1	0
urin bladd		<27>	<35>	<26>	<18>
	leukemic cell infiltration	1	1	0	0
{Reproductive system}					
epididymis		<27>	<35>	<26>	<18>
	leukemic cell infiltration	1	1	1	0
semin ves		<27>	<35>	<26>	<18>
	leukemic cell infiltration	1	0	0	0
prostate		<27>	<35>	<26>	<18>
	leukemic cell infiltration	1	0	1	0
< a >		a : Number of animals examined at the site			
b		b : Number of animals with lesion			

(JPT150)

BAIS3

APPENDIX O 4

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study	Control 30	320 ppm 28	800 ppm 29	2000 ppm 24
{Integumentary system/appandage}						
subcutis	leukemic cell infiltration		<30> 1	<28> 0	<29> 0	<24> 0
{Respiratory system}						
nasal cavit	leukemic cell infiltration		<30> 1	<28> 0	<29> 0	<24> 0
larynx	leukemic cell infiltration		<30> 0	<28> 0	<29> 1	<24> 0
lung	leukemic cell infiltration		<30> 4	<28> 3	<29> 3	<24> 4
	metastasis:liver tumor		0	1	0	0
	metastasis:uterus tumor		1	1	0	1
{Hematopoietic system}						
bone marrow	leukemic cell infiltration		<30> 4	<28> 0	<29> 6	<24> 2
lymph node	leukemic cell infiltration		<30> 1	<28> 0	<29> 0	<24> 0
	metastasis:uterus tumor		1	0	0	1
thymus	leukemic cell infiltration		<30> 0	<28> 0	<29> 1	<24> 0
spleen	leukemic cell infiltration		<30> 4	<28> 3	<29> 4	<24> 0

< a > a : Number of animals examined at the site
 b b : Number of animals with lesion

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study	Control 30	320 ppm 28	800 ppm 29	2000 ppm 24
{Hematopoietic system}						
spleen	metastasis:uterus tumor		<30> 0	<28> 0	<29> 0	<24> 1
{Circulatory system}						
heart	leukemic cell infiltration		<30> 0	<28> 0	<29> 1	<24> 0
{Digestive system}						
salivary gl	leukemic cell infiltration		<30> 4	<28> 0	<29> 1	<24> 1
stomach	leukemic cell infiltration		<30> 3	<28> 1	<29> 3	<24> 0
	metastasis:uterus tumor		1	1	0	0
small intes	leukemic cell infiltration		<30> 0	<28> 0	<29> 1	<24> 0
liver	leukemic cell infiltration		<30> 5	<28> 3	<29> 4	<24> 1
	metastasis:uterus tumor		3	0	0	1
gall bladd	leukemic cell infiltration		<30> 0	<28> 1	<29> 0	<24> 0
pancreas	leukemic cell infiltration		<30> 2	<28> 1	<29> 1	<24> 0
	metastasis:uterus tumor		0	1	0	0

< a > a : Number of animals examined at the site
 b b : Number of animals with lesion

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 5

Group Name No. of Animals on Study		Control 30	320 ppm 28	800 ppm 29	2000 ppm 24
Organ	Findings				
{Urinary system}					
kidney	leukemic cell infiltration	<30> 4	<28> 3	<29> 2	<24> 0
	metastasis:uterus tumor	1	0	0	0
urin bladd	leukemic cell infiltration	<30> 2	<28> 1	<29> 1	<24> 1
{Endocrine system}					
thyroid	leukemic cell infiltration	<30> 0	<28> 0	<29> 1	<24> 0
	metastasis:liver tumor	0	0	1	0
adrenal	leukemic cell infiltration	<30> 0	<28> 1	<29> 1	<24> 0
	metastasis:peritoneum tumor	0	0	0	1
{Reproductive system}					
ovary	leukemic cell infiltration	<30> 2	<28> 2	<29> 1	<24> 1
	metastasis:uterus tumor	2	1	0	2
uterus	leukemic cell infiltration	<30> 1	<28> 0	<29> 0	<24> 0
vagina	metastasis:uterus tumor	<30> 0	<28> 0	<29> 1	<24> 1
{Special sense organs/appendage}					
Harder gl	leukemic cell infiltration	<30> 0	<28> 0	<29> 1	<24> 0

< a > a : Number of animals examined at the site
b b : Number of animals with lesion

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
SACRIFICED ANIMALS (105W)

PAGE : 6

		Group Name	Control	320 ppm	800 ppm	2000 ppm
		No. of Animals on Study	30	28	29	24
Organ	Findings					
{Musculoskeletal system}						
bone	leukemic cell infiltration		<30> 0	<28> 0	<29> 1	<24> 0
{Body cavities}						
peritoneum	metastasis:uterus tumor		<30> 0	<28> 1	<29> 0	<24> 0
retroperit	metastasis:uterus tumor		<30> 1	<28> 0	<29> 0	<24> 0
adipose	leukemic cell infiltration		<30> 0	<28> 0	<29> 0	<24> 1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

(JPT150)

BAIS3

APPENDIX O 5

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 1

		Group Name No. of Animals on Study	Control 22	320 ppm 15	800 ppm 24	2000 ppm 32
Organ	Findings					
{Integumentary system/appandage}						
subcutis			<22>	<15>	<24>	<32>
	metastasis:liver tumor		1	0	0	0
{Respiratory system}						
nasal cavit			<22>	<15>	<24>	<32>
	leukemic cell infiltration		0	0	0	1
lung			<22>	<15>	<24>	<32>
	leukemic cell infiltration		2	1	1	2
	metastasis:liver tumor		3	4	2	9
	metastasis:subcutis tumor		1	0	1	0
	metastasis:bone tumor		1	0	0	0
{Hematopoietic system}						
bone marrow			<22>	<15>	<24>	<32>
	leukemic cell infiltration		2	0	0	1
	metastasis:liver tumor		0	1	0	0
	metastasis:subcutis tumor		0	0	1	0
lymph node			<22>	<15>	<24>	<32>
	leukemic cell infiltration		0	0	0	1
	metastasis:liver tumor		1	0	0	0
spleen			<22>	<15>	<24>	<32>
	leukemic cell infiltration		2	1	1	2
< a > a : Number of animals examined at the site b b : Number of animals with lesion						

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 2

Group Name No. of Animals on Study		Control 22	320 ppm 15	800 ppm 24	2000 ppm 32
Organ	Findings				
{Circulatory system}					
heart		<22>	<15>	<24>	<32>
	leukemic cell infiltration	1	0	0	1
	metastasis:lung tumor	0	1	0	0
{Digestive system}					
salivary gl		<22>	<15>	<24>	<32>
	leukemic cell infiltration	2	0	0	1
	metastasis:subcutis tumor	0	0	1	0
stomach		<22>	<15>	<24>	<32>
	leukemic cell infiltration	1	0	0	1
	metastasis:liver tumor	0	0	0	1
small intes		<22>	<15>	<24>	<32>
	leukemic cell infiltration	0	1	0	0
liver		<22>	<15>	<24>	<32>
	leukemic cell infiltration	2	1	1	2
	metastasis:subcutis tumor	1	0	0	0
	metastasis:bone tumor	1	0	0	0
gall bladd		<22>	<14>	<24>	<32>
	leukemic cell infiltration	1	0	0	0
pancreas		<22>	<15>	<24>	<32>
	leukemic cell infiltration	1	0	0	0
	metastasis:liver tumor	0	1	0	2
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 3

Group Name No. of Animals on Study		Control 22	320 ppm 15	800 ppm 24	2000 ppm 32
Organ	Findings				
{Urinary system}					
kidney		<22>	<15>	<24>	<32>
	leukemic cell infiltration	2	1	1	2
	metastasis:liver tumor	0	1	1	0
	metastasis:subcutis tumor	1	0	0	0
urin bladd		<22>	<15>	<24>	<32>
	leukemic cell infiltration	1	0	0	2
	metastasis:liver tumor	0	0	1	0
{Reproductive system}					
testis		<22>	<15>	<24>	<32>
	leukemic cell infiltration	0	0	0	1
epididymis		<22>	<15>	<24>	<32>
	leukemic cell infiltration	1	0	0	1
	metastasis:liver tumor	1	1	0	0
semin ves		<22>	<15>	<24>	<32>
	leukemic cell infiltration	1	0	0	0
prostate		<22>	<15>	<24>	<32>
	leukemic cell infiltration	1	0	0	1
{Special sense organs/appendage}					
Harder gl		<22>	<15>	<24>	<32>
	leukemic cell infiltration	1	0	0	2
{Body cavities}					
pleura		<22>	<15>	<24>	<32>
	metastasis:lung tumor	0	1	1	0
< a > a : Number of animals examined at the site b b : Number of animals with lesion					

APPENDIX O 6

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-YEAR STUDY)

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

Organ	Findings	Group Name No. of Animals on Study	Control 20	320 ppm 22	800 ppm 21	2000 ppm 26
(Integumentary system/appandage)						
subcutis			<20>	<22>	<21>	<26>
	leukemic cell infiltration		2	4	3	0
(Respiratory system)						
nasal cavit			<20>	<22>	<21>	<26>
	leukemic cell infiltration		2	0	0	2
	metastasis:uterus tumor		1	0	0	0
	metastasis:subcutis tumor		0	0	0	1
	metastasis:peripheral nerve tumor		0	0	0	1
larynx			<20>	<22>	<21>	<26>
	leukemic cell infiltration		0	1	0	1
trachea			<20>	<22>	<21>	<26>
	leukemic cell infiltration		2	1	1	1
lung			<20>	<22>	<21>	<26>
	leukemic cell infiltration		7	7	5	7
	metastasis:liver tumor		0	2	2	1
	metastasis:uterus tumor		2	1	2	3
	metastasis:subcutis tumor		1	0	0	0
	metastasis:bone tumor		1	0	0	0
	metastasis:spinal code tumor		0	0	0	1
(Hematopoietic system)						
bone marrow			<20>	<22>	<21>	<26>
	leukemic cell infiltration		2	4	3	4
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 20	320 ppm 22	800 ppm 21	2000 ppm 26
{Hematopoietic system}						
bone marrow	metastasis:liver tumor		<20> 0	<22> 1	<21> 0	<26> 0
	metastasis:uterus tumor		2	0	1	1
lymph node	leukemic cell infiltration		<20> 0	<22> 1	<21> 0	<26> 0
	metastasis:uterus tumor		2	0	0	1
	metastasis:subcutis tumor		1	0	0	0
spleen	leukemic cell infiltration		<20> 5	<22> 5	<21> 3	<26> 6
	metastasis:liver tumor		0	3	0	0
	metastasis:uterus tumor		1	0	0	0
{Circulatory system}						
heart	leukemic cell infiltration		<20> 5	<22> 4	<21> 3	<26> 3
	metastasis:uterus tumor		0	0	1	0
{Digestive system}						
tongue	leukemic cell infiltration		<20> 0	<22> 2	<21> 1	<26> 0
salivary gl	leukemic cell infiltration		<20> 5	<22> 4	<21> 3	<26> 5

< a > a : Number of animals examined at the site
b b : Number of animals with lesion

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 6

Group Name No. of Animals on Study		Control 20	320 ppm 22	800 ppm 21	2000 ppm 26
Organ	Findings				
{Digestive system}					
stomach		<20>	<22>	<21>	<26>
	leukemic cell infiltration	6	3	3	4
	metastasis:uterus tumor	0	1	0	2
large intes		<20>	<22>	<21>	<26>
	leukemic cell infiltration	0	0	0	1
liver		<20>	<22>	<21>	<26>
	leukemic cell infiltration	6	8	6	6
	metastasis:uterus tumor	3	3	5	4
	metastasis:subcutis tumor	1	0	0	1
gall bladd		<20>	<22>	<21>	<26>
	leukemic cell infiltration	0	1	0	1
pancreas		<20>	<22>	<21>	<26>
	leukemic cell infiltration	4	3	4	2
	metastasis:uterus tumor	0	0	0	2
{Urinary system}					
kidney		<20>	<22>	<21>	<26>
	leukemic cell infiltration	5	2	2	5
	metastasis:uterus tumor	1	0	0	3
	metastasis:subcutis tumor	0	0	0	1
urin bladd		<20>	<22>	<21>	<26>
	leukemic cell infiltration	6	5	3	4
< a >	a : Number of animals examined at the site				
b	b : Number of animals with lesion				

STUDY NO. : 0329
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study	Control 20	320 ppm 22	800 ppm 21	2000 ppm 26
{Urinary system}						
urin bladd	metastasis:uterus tumor		<20> 1	<22> 0	<21> 1	<26> 1
{Endocrine system}						
pituitary	metastasis:peripheral nerve tumor		<20> 0	<22> 0	<21> 0	<26> 1
thyroid	leukemic cell infiltration		<20> 1	<22> 3	<21> 0	<26> 1
adrenal	leukemic cell infiltration		<20> 1	<22> 2	<21> 0	<26> 5
{Reproductive system}						
ovary	leukemic cell infiltration		<20> 8	<22> 4	<21> 6	<26> 6
	metastasis:uterus tumor		3	2	3	4
	metastasis:subcutis tumor		1	0	0	1
uterus	leukemic cell infiltration		<20> 4	<22> 0	<21> 1	<26> 4
vagina	leukemic cell infiltration		<20> 2	<22> 3	<21> 0	<26> 2
	metastasis:uterus tumor		1	0	1	0
{Nervous system}						
brain	leukemic cell infiltration		<20> 2	<22> 2	<21> 1	<26> 3
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0329
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study	Control 20	320 ppm 22	800 ppm 21	2000 ppm 26
{Nervous system}						
brain			<20>	<22>	<21>	<26>
	metastasis:peripheral nerve tumor		0	0	0	1
spinal cord			<20>	<22>	<21>	<26>
	leukemic cell infiltration		2	1	0	1
	metastasis:peripheral nerve tumor		0	0	0	1
{Special sense organs/appendage}						
eye			<20>	<22>	<21>	<26>
	leukemic cell infiltration		0	1	1	1
Harder gl			<20>	<22>	<21>	<26>
	leukemic cell infiltration		2	3	2	3
	metastasis:uterus tumor		1	0	0	0
{Musculoskeletal system}						
muscle			<20>	<22>	<21>	<26>
	leukemic cell infiltration		2	3	1	3
{Body cavities}						
peritoneum			<20>	<22>	<21>	<26>
	leukemic cell infiltration		2	1	3	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

APPENDIX P 1

IDENTITY AND IMPURITY OF 1,4-DICHLORO-2-NITROBENZENE
IN THE 2-YEAR FEED STUDY

IDENTITY OF 1,4-DICHLORO-2-NITROBENZENE IN THE 2-YEAR FEED STUDY

Test Substance : 1,4-Dichloro-2-nitrobenzene (Wako Pure Chemical Industries, Ltd.)

Lot No. : WTR1850

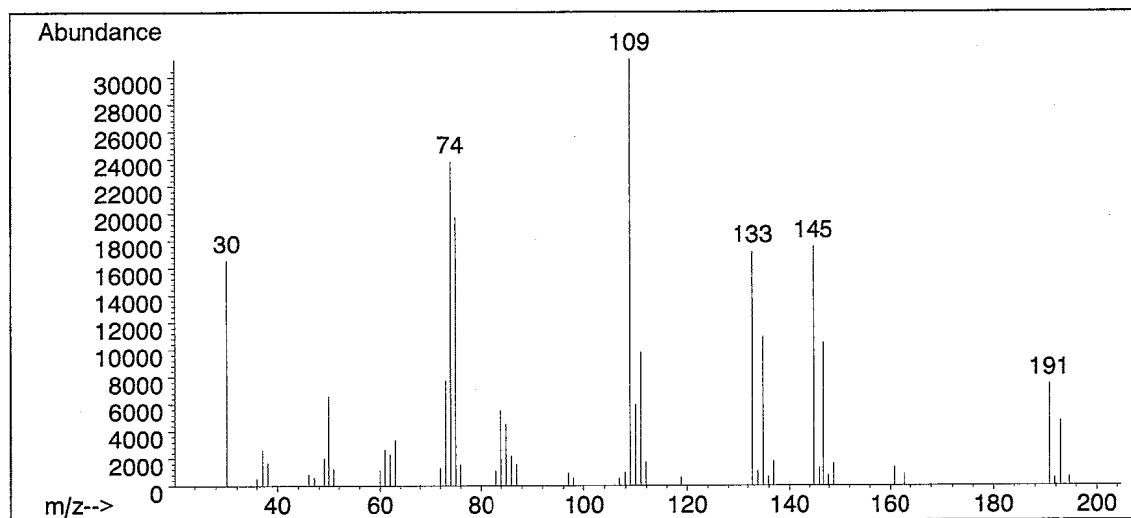
1. Spectral Data

Mass Spectrometry

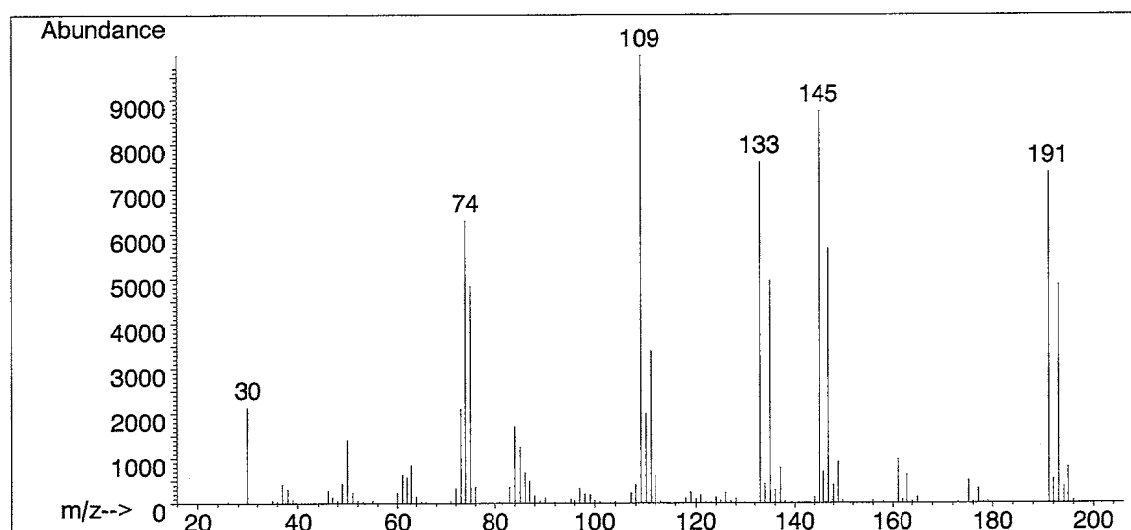
Instrument : Hewlett Packard 5989B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance



Mass Spectrum of Literature Data*

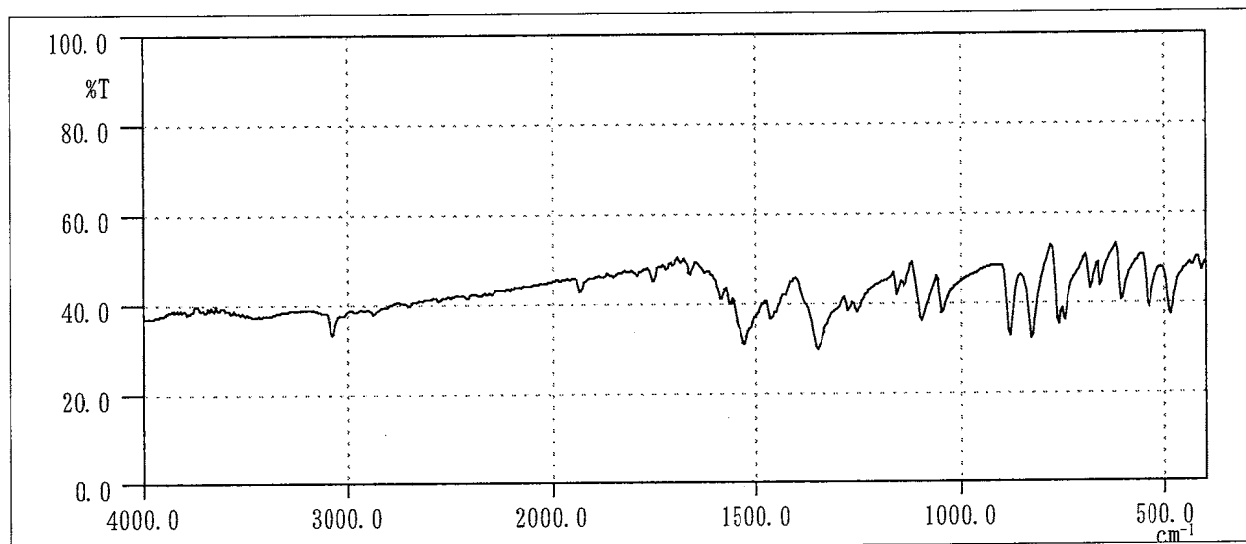
Results: The mass spectrum was consistent with literature spectrum.

(*Fred W. McLafferty (1994) Wiley Registry of Mass Spectral Data, 6th edition.
John Wiley and Sons, Inc. (U.S.), Entry Number 74222)

Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr

Resolution : 2 cm^{-1} 

Infrared Spectrum of Test Substance

<u>Determined Values</u>	<u>Literature Values*</u>
Wave Number (cm^{-1})	Wave Number (cm^{-1})
460~ 510	460~ 510
510~ 560	510~ 560
560~ 620	560~ 620
620~ 670	620~ 670
670~ 690	670~ 690
690~ 790	690~ 790
790~ 850	790~ 850
850~ 900	850~ 900
900~1060	900~1060
1060~1120	1060~1120
1120~1170	1120~1170
1170~1180	1170~1180
1180~1260	1180~1260
1260~1280	1260~1280
1280~1400	1280~1400
1400~1470	1400~1470
1470~1580	1470~1580
1580~1600	1580~1600
1650~1690	1650~1690
1750~1780	1750~1780
1780~1810	1780~1810
1900~1950	1900~1950
3000~3100	3000~3100

Results: The infrared spectrum was consistent with literature spectrum.

(*Performed by Wako Pure Chemical Industries, Ltd.)

2. Conclusions: The test substance was identified as 1,4-dichloro-2-nitrobenzene by the mass spectrum and the infrared spectrum.

APPENDIX P 2

STABILITY OF 1,4-DICHLORO-2-NITROBENZENE
IN THE 2-YEAR FEED STUDY

STABILITY OF 1,4-DICHLORO-2-NITROBENZENE IN THE 2-YEAR FEED STUDY

Test Substance : 1,4-Dichloro-2-nitrobenzene (Wako Pure Chemical Industries, Ltd.)

Lot No. : WTR1850

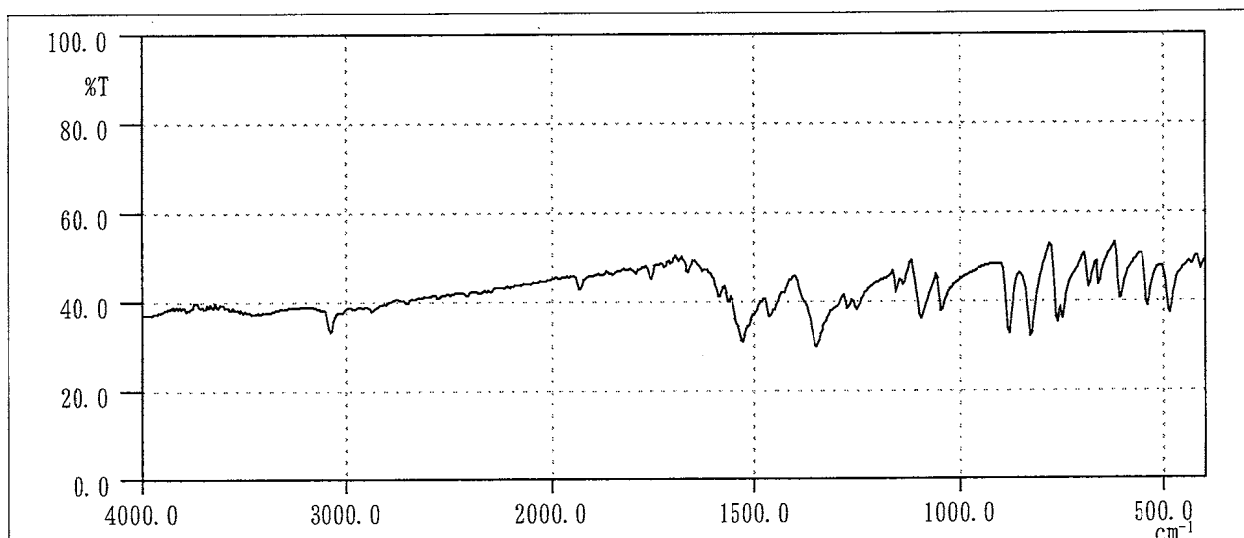
1. Sample : This lot was used from 1997.3.6 to 1999.3.10. Test substance was stored in a dark place at room temperature.

2. Infrared Spectrometry

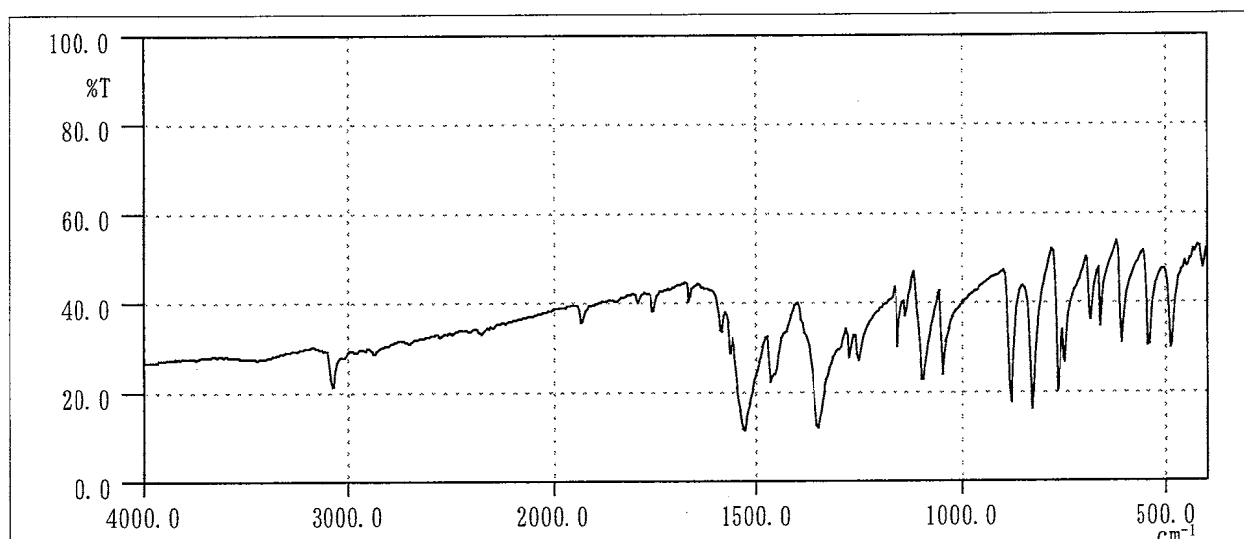
Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr

Resolution : 2 cm^{-1}



Infrared Spectrum of Test Substance (date analyzed : 1997.02.12)



Infrared Spectrum of Test Substance (date analyzed : 1999.03.16)

Results: The results of infrared spectrum did not change before and after the study.

3. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph
Column : Methyl Silicone (0.2 mm ϕ \times 50m)
Column Temperature : 80 °C \rightarrow (10 °C/min) \rightarrow 220 °C (3 min)
Flow Rate : 1 mL/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

Date (date analyzed)	Peak No.	Retention Time (min)	Area (%)
1997.02.12	1	9.063	100
1999.03.15	1	9.066	100

Results: Gas chromatography indicated one major peak (peak No.1) analyzed on 1997.2.12 and one major peak (peak No.1) analyzed on 1999.3.15. No new trace impurity peak in the test substance analyzed on 1999.3.15 was detected.

4. Conclusions: The test substance was stable for about 2 years in a dark place at room temperature.

APPENDIX P 3

CONCENTRATION OF 1,4-DICHLORO-2-NITROBENZENE
IN FORMULATED DIETS IN THE 2-YEAR FEED STUDY

CONCENTRATION OF 1,4-DICHLORO-2-NITROBENZENE IN FORMULATED DIETS IN THE 2-YEAR FEED STUDY

Date Analyzed	Target Concentration		
	320 ^a	800	2000
1997.03.05	317.9 (99.3) ^b	779.3 (97.4)	1835.0 (91.8)
1997.05.07	326.1 (101.9)	762.8 (95.4)	1838.4 (91.9)
1997.07.30	312.7 (97.7)	770.0 (96.3)	1881.5 (94.1)
1997.10.22	316.8 (99.0)	767.7 (96.0)	1877.1 (93.9)
1998.01.14	330.1 (103.2)	796.7 (99.6)	1983.5 (99.2)
1998.04.08	349.2 (109.1)	739.2 (92.4)	1840.1 (92.0)
1998.07.01	326.7 (102.1)	753.2 (94.2)	1793.5 (89.7)
1998.10.07	297.7 (93.0)	763.6 (95.5)	1837.9 (91.9)
1998.12.16	314.1 (98.2)	722.3 (90.3)	1828.0 (91.4)

^a ppm

^b %

Analytical Method : The samples were analyzed by gas chromatography.

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.2 mm ϕ \times 50m)

Column Temperature : 80 °C \rightarrow (15 °C/min) \rightarrow 250 °C \rightarrow (20 °C/min) \rightarrow 280 °C (3 min)

Flow Rate : 1 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

HOMOGENEITY OF 1,4-DICHLORO-2-NITROBENZENE IN FORMULATED DIETS IN THE 2-YEAR FEED STUDY

	Target Concentration		
	320 ^a	800	2000
Coefficient Variation	4.81 ^b	1.61	2.22

^a ppm

^b % (n=7)

Analytical Method : The samples were analyzed by gas chromatography.

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.2 mm ϕ \times 50m)

Column Temperature : 80 °C \rightarrow (15 °C/min) \rightarrow 250 °C \rightarrow (20 °C/min) \rightarrow 280 °C (3 min)

Flow Rate : 1 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

APPENDIX P 4

STABILITY OF 1,4-DICHLORO-2-NITROBENZENE IN FORMULATED DIETS IN THE 2-YEAR FEED STUDY

STABILITY OF 1,4-DICHLORO-2-NITROBENZENE IN FORMULATED DIETS IN THE 2-YEAR FEED STUDY

Date Prepared	Date Analyzed	Target Concentration	
		320 ^a	2000
1997.01.23	1997.01.23	318.0 (100) ^b	1969.8 (100)
	1997.01.31 ^c	304.4 (95.7)	1814.3 (92.1)
	1997.01.31 ^d	308.4 (97.0)	1808.9 (91.8)
	1997.02.07 ^c	290.7 (91.4)	1743.1 (88.5)
	1997.02.07 ^d	294.1 (92.5)	1728.7 (87.8)

^a ppm

^b % (Percentage was based on the concentration on date of preparation.)

^c Animal room samples

^d Cold storage samples

Analytical Method : The samples were analyzed by gas chromatography.

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone (0.2 mm ϕ \times 50m)

Column Temperature : 80 °C \rightarrow (15 °C/min) \rightarrow 250 °C \rightarrow (20 °C/min) \rightarrow 280 °C (3 min)

Flow Rate : 1 mL/min

Detector : FID (Flame Ionization Detector)

Injection Volume : 1 μ L

APPENDIX Q 1

METHODS FOR HEMATOLOGY, BIOCHEMISTRY AND URINALISYS IN
THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

METHODS FOR HEMATOLOGY, BIOCHEMISTRY AND URINALYSIS
IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Item	Method
Hematology	
Red blood cell (RBC)	Light scattering method ¹⁾
Hemoglobin (Hgb)	Cyanmethemoglobin method ¹⁾
Hematocrit (Hct)	Calculated as $RBC \times MCV / 10$ ¹⁾
Mean corpuscular volume (MCV)	Light scattering method ¹⁾
Mean corpuscular hemoglobin (MCH)	Calculated as $Hgb / RBC \times 10$ ¹⁾
Mean corpuscular hemoglobin concentration (MCHC)	Calculated as $Hgb / Hct \times 100$ ¹⁾
Platelet	Light scattering method ¹⁾
White blood cell (WBC)	Light scattering method ¹⁾
Differential WBC	Pattern recognition method ²⁾ (Wright staining)
Biochemistry	
Total protein (TP)	Biuret method ³⁾
Albumin (Alb)	BCG method ³⁾
A/G ratio	Calculated as $Alb / (TP - Alb)$ ³⁾
T-bilirubin	Alkaline azobilirubin method ³⁾
Glucose	GlcK · G-6-PDH method ³⁾
T-cholesterol	CE · COD · POD method ³⁾
Triglyceride	LPL · GK · GPO · POD method ³⁾
Phospholipid	PLD · ChOD · POD method ³⁾
Glutamic oxaloacetic transaminase (GOT)	JSCC method ³⁾
Glutamic pyruvic transaminase (GPT)	JSCC method ³⁾
Lactate dehydrogenase (LDH)	SFBC method ³⁾
Alkaline phosphatase (ALP)	GSCC method ³⁾
γ -Glutamyl transpeptidase (γ -GTP)	L- γ -Glutamyl-p-nitroanilide method ³⁾
Creatine phosphokinase (CPK)	JSCC method ³⁾
Urea nitrogen	Urease · GLDH method ³⁾
Sodium	Ion selective electrode method ³⁾
Potassium	Ion selective electrode method ³⁾
Chloride	Ion selective electrode method ³⁾
Calcium	OCPC method ³⁾
Inorganic phosphorus	PNP · XOD · POD method ³⁾
Urinalysis	
pH, Protein, Glucose, Ketone body, Occult blood, Urobilinogen	Urinalysis reagent paper method ⁴⁾

1) Automatic blood cell analyzer (Technicon H-1 : Bayer Corporation)

2) Automatic blood cell differential analyzer (MICROX HEG-120NA : OMRON Corporation)

3) Automatic analyzer (Hitachi 7070 : Hitachi, Ltd.)

4) Ames reagent strips for urinalysis (Uro-Labstix : Bayer Corporation)

APPENDIX Q 2

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE
2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY
IN THE 2-YEAR FEED STUDY OF 1,4-DICHLORO-2-NITROBENZENE

Item	Unit	Decimal place
Hematology		
Red blood cell (RBC)	$\times 10^6 / \mu\text{L}$	2
Hemoglobin	g/dL	1
Hematocrit	%	1
Mean corpuscular volume (MCV)	fL	1
Mean corpuscular hemoglobin (MCH)	pg	1
Mean corpuscular hemoglobin concentration (MCHC)	g/dL	1
Platelet	$\times 10^3 / \mu\text{L}$	0
White blood cell (WBC)	$\times 10^3 / \mu\text{L}$	2
Differential WBC	%	0
Biochemistry		
Total protein	g/dL	1
Albumin	g/dL	1
A/G ratio	—	1
T-bilirubin	mg/dL	2
Glucose	mg/dL	0
T-cholesterol	mg/dL	0
Triglyceride	mg/dL	0
Phospholipid	mg/dL	0
Glutamic oxaloacetic transaminase (GOT)	IU/L	0
Glutamic pyruvic transaminase (GPT)	IU/L	0
Lactate dehydrogenase (LDH)	IU/L	0
Alkaline phosphatase (ALP)	IU/L	0
γ -Glutamyl transpeptidase (γ -GTP)	IU/L	0
Creatine phosphokinase (CPK)	IU/L	0
Urea nitrogen	mg/dL	1
Sodium	mEq/L	0
Potassium	mEq/L	1
Chloride	mEq/L	0
Calcium	mg/dL	1
Inorganic phosphorus	mg/dL	1