2-ブロモプロパンのラットを用いた
吸入による 2 週間毒性試験報告書

試験番号：0834

TABLES

TABLES

TABLES (CONTINUED)

TABLE A

CONCENTRATIONS OF 2-BROMOPROPANE IN THE INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

CONCENTRATIONS OF 2-BROMOPROPANE IN THE INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

Group Name	Concentration(ppm) Mean ± S.D.
Control	0.0 ± 0.0
300 ppm	300.1 ± 1.9
1000 ppm	1002.6 ± 3.7
3000 ppm	2996.0 ± 10.1
10000 ppm	9973.0 ± 30.3

TABLE B 1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Days) 0-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	2-1	2-2	2-3	2-4	2-5	2-6
Control	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3000ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10000ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Number of survival/ Number of effective animals
Survival rate(%)

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
300ppm	5	5/ 5 100.0
1000ppm	5	5/ 5 100.0
3000ppm	5	5/ 5 100.0
10000ppm	5	5/ 5 100.0

Number of survival/ Number of effective animals
Survival rate(%)

TABLE B 2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Days) 0-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	2-1	2-2	2-3	2-4	2-5	2-6
Control	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
300ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
1000ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
3000ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
10000ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0

Number of survival/ Number of effective animals
Survival rate(%)

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
300ppm	5	5/ 5 100.0
1000ppm	5	5/ 5 100.0
3000ppm	5	5/ 5 100.0
10000ppm	5	4/ 5 80.0

Number of survival/ Number of effective animals
Survival rate(%)

TABLE C 1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day 1-2	1-4	1-7	2-3	2-7
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	5	0
HUNCHBACK POSITION	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	0	5
ATAXIC GAIT	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	5	0
WEAKNESS	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	0	5
WASTING	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	5	5
SOILED PERI-GENITALIA	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	0	3
LACRIMATION	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	3	4

Clinical sign	Group Name	Administration Week-day 1-2	1-4	1-7	2-3	2-7
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	5	5
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	5	5
IRREGULAR BREATHING	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	0	5
SUBNORMAL TEMP	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	0	5
NON REMARKABLE	Control	5	5	5	5	5
	300ppm	5	5	5	5	5
	1000ppm	5	5	5	5	5
	3000ppm	5	5	5	5	5
	10000ppm	5	5	5	0	0

TABLE C 2

CLINICAL OBSERVATION : FEMALE

Clinical sign	Group Name	Administration Week-day 1-2	1-4	1-7	2-3	2-7
MORIBUND SACRIFICE	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	0	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	5	0
HUNCHBACK POSITION	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	0	4
ATAXIC GAIT	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	5	0
WEAKNESS	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	0	4
WASTING	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	5	4
SOILED PERI-GENITALIA	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	3	4

Clinical sign	Group Name	Administration Week-day 1-2	1-4	1-7	2-3	2-7
LACRIMATION	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	1	4
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	4	3
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	5	4
IRREGULAR BREATHING	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	0	4
SUBNORMAL TEMP	Control	0	0	0	0	0
	300ppm	0	0	0	0	0
	1000ppm	0	0	0	0	0
	3000ppm	0	0	0	0	0
	10000ppm	0	0	0	0	4
NON REMARKABLE	Control	5	5	5	5	5
	300ppm	5	5	5	5	5
	1000ppm	5	5	5	5	5
	3000ppm	5	5	5	5	5
	10000ppm	5	5	5	0	0

TABLE D 1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av.Wt.	Control No. of Surviv. < 5>	300ppm Av.Wt.	300ppm % of cont. < 5>	300ppm No. of Surviv.	1000ppm Av.Wt.	1000ppm % of cont. < 5>	1000ppm No. of Surviv.	3000ppm Av.Wt.	3000ppm % of cont. < 5>	3000ppm No. of Surviv.	10000ppm Av.Wt.	10000ppm % of cont. < 5>	10000ppm No. of Surviv.
0-0	117 (5)	5/ 5	117 (5)	100	5/ 5	117 (5)	100	5/ 5	117 (5)	100	5/ 5	117 (5)	100	5/ 5
1-2	125 (5)	5/ 5	125 (5)	100	5/ 5	124 (5)	99	5/ 5	121 (5)	97	5/ 5	114 (5)	91	5/ 5
1-4	129 (5)	5/ 5	131 (5)	102	5/ 5	129 (5)	100	5/ 5	124 (5)	96	5/ 5	110 (5)	85	5/ 5
1-7	144 (5)	5/ 5	144 (5)	100	5/ 5	144 (5)	100	5/ 5	133 (5)	92	5/ 5	114 (5)	79	5/ 5
2-3	158 (5)	5/ 5	160 (5)	101	5/ 5	156 (5)	99	5/ 5	141 (5)	89	5/ 5	101 (5)	64	5/ 5
2-7	175 (5)	5/ 5	177 (5)	101	5/ 5	172 (5)	98	5/ 5	152 (5)	87	5/ 5	84 (5)	48	5/ 5

< >:No.of effective animals, ( ):No.of measured animals Av.Wt.: g

TABLE D 2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <5>	300ppm Av.Wt.	300ppm % of cont. <5>	300ppm No.of Surviv.	1000ppm Av.Wt.	1000ppm % of cont. <5>	1000ppm No.of Surviv.	3000ppm Av.Wt.	3000ppm % of cont. <5>	3000ppm No.of Surviv.	10000ppm Av.Wt.	10000ppm % of cont. <5>	10000ppm No.of Surviv.
0-0	96 (5)	5/ 5	96 (5)	100	5/ 5	96 (5)	100	5/ 5	96 (5)	100	5/ 5	96 (5)	100	5/ 5
1-2	101 (5)	5/ 5	100 (5)	99	5/ 5	103 (5)	102	5/ 5	99 (5)	98	5/ 5	95 (5)	94	5/ 5
1-4	103 (5)	5/ 5	103 (5)	100	5/ 5	105 (5)	102	5/ 5	98 (5)	95	5/ 5	89 (5)	86	5/ 5
1-7	111 (5)	5/ 5	111 (5)	100	5/ 5	113 (5)	102	5/ 5	105 (5)	95	5/ 5	90 (5)	81	5/ 5
2-3	119 (5)	5/ 5	119 (5)	100	5/ 5	120 (5)	101	5/ 5	108 (5)	91	5/ 5	82 (5)	69	5/ 5
2-7	125 (5)	5/ 5	125 (5)	100	5/ 5	127 (5)	102	5/ 5	115 (5)	92	5/ 5	69 (4)	55	4/ 5

< >:No.of effective animals, ( ):No.of measured animals Av.Wt. : g

TABLE D 3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-2	1-4	1-7	2-3	2-7
Control	117± 3	125± 3	129± 3	144± 4	158± 6	175± 7
300ppm	117± 4	125± 5	131± 6	144± 5	160± 7	177± 9
1000ppm	117± 5	124± 4	129± 5	144± 5	156± 6	172± 8
3000ppm	117± 3	121± 4	124± 4	133± 4**	141± 6**	152± 5**
10000ppm	117± 4	114± 6**	110± 6**	114± 6**	101± 6**	84± 10**

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE D 4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-2	1-4	1-7	2-3	2-7
Control	96± 2	101± 2	103± 3	111± 2	119± 5	125± 4
300ppm	96± 4	100± 4	103± 5	111± 4	119± 5	125± 6
1000ppm	96± 3	103± 3	105± 5	113± 5	120± 6	127± 7
3000ppm	96± 2	99± 3	98± 3	105± 4	108± 4*	115± 4*
10000ppm	96± 3	95± 3*	89± 3**	90± 2**	82± 6**	69± 5**

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE E 1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <5>	300ppm Av.FC.	300ppm % of cont. <5>	300ppm No.of Surviv.	1000ppm Av.FC.	1000ppm % of cont. <5>	1000ppm No.of Surviv.	3000ppm Av.FC.	3000ppm % of cont. <5>	3000ppm No.of Surviv.	10000ppm Av.FC.	10000ppm % of cont. <5>	10000ppm No.of Surviv.
1-7	15.1 (5)	5/ 5	15.4 (5)	102	5/ 5	15.2 (5)	101	5/ 5	13.9 (5)	92	5/ 5	9.8 (5)	65	5/ 5
2-7	16.1 (5)	5/ 5	16.9 (5)	105	5/ 5	16.4 (5)	102	5/ 5	13.6 (5)	84	5/ 5	4.3 (5)	27	5/ 5

< >:No.of effective animals, ( ):No.of measured animals Av.FC.: g

TABLE E 2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <5>	300ppm Av.FC.	300ppm % of cont. <5>	300ppm No.of Surviv.	1000ppm Av.FC.	1000ppm % of cont. <5>	1000ppm No.of Surviv.	3000ppm Av.FC.	3000ppm % of cont. <5>	3000ppm No.of Surviv.	10000ppm Av.FC.	10000ppm % of cont. <5>	10000ppm No.of Surviv.
1-7	12.4 (5)	5/ 5	12.6 (5)	102	5/ 5	13.3 (5)	107	5/ 5	11.2 (5)	90	5/ 5	8.2 (5)	66	5/ 5
2-7	12.2 (5)	5/ 5	12.6 (5)	103	5/ 5	12.9 (5)	106	5/ 5	10.9 (5)	89	5/ 5	4.5 (4)	37	4/ 5

< >:No.of effective animals, ( ):No.of measured animals Av.FC.: g

TABLE E 3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration 1-7(7)	week-day(effective) 2-7(7)
Control	15.1± 0.6	16.1± 1.1
300ppm	15.4± 0.7	16.9± 0.5
1000ppm	15.2± 0.6	16.4± 0.4
3000ppm	13.9± 1.5	13.6± 1.1**
10000ppm	9.8± 1.1**	4.3± 1.6**

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE E 4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration 1-7(7)	week-day(effective) 2-7(7)
Control	12.4± 0.6	12.2± 0.6
300ppm	12.6± 0.8	12.6± 0.8
1000ppm	13.3± 1.4	12.9± 1.5
3000ppm	11.2± 0.8	10.9± 0.8
10000ppm	8.2± 0.5**	4.5± 1.5**

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE F 1

HEMATOLOGY : MALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	5	8.34± 0.07	15.1± 0.1	44.2± 0.5	53.1± 0.4	18.0± 0.2	34.0± 0.3	949± 33
300ppm	4	8.39± 0.15	15.2± 0.2	44.9± 1.0	53.5± 0.3	18.2± 0.1	34.0± 0.3	956± 19
1000ppm	5	8.36± 0.30	15.3± 0.6	44.6± 1.5	53.3± 0.2	18.3± 0.2	34.3± 0.5	961± 20
3000ppm	5	8.33± 0.12	15.3± 0.2	44.1± 0.9	53.1± 0.4	18.4± 0.1**	34.7± 0.4	288± 33**
10000ppm	4	4.68± 2.03*	8.4± 3.7	24.1± 10.7*	51.5± 0.9**	18.1± 0.1	35.1± 0.4**	8± 6**

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RETICULOCYTE %
Control	5	3.1± 0.4
300ppm	4	3.3± 0.3
1000ppm	5	3.1± 0.3
3000ppm	5	0.8± 0.1
10000ppm	4	0.1± 0.0

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$		Differential WBC (%) NEUTRO		LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	5	3.86±	0.61	23.0±	3.8	73.4±	4.0	2.1±	0.4	0.8±	0.1	0.2±	0.1	0.5±	0.3
300ppm	4	3.45±	0.29	24.5±	5.8	72.1±	6.6	1.8±	0.8	0.8±	0.2	0.3±	0.1	0.5±	0.1
1000ppm	5	3.13±	0.59	21.0±	3.8	74.9±	3.8	2.2±	0.2	0.8±	0.3	0.4±	0.2	0.6±	0.2
3000ppm	5	1.42±	0.26**	15.5±	3.4*	81.5±	3.8*	0.9±	0.2	1.5±	0.8	0.3±	0.2	0.3±	0.1
10000ppm	4	0.17±	0.06**	7.3±	4.0**	87.9±	5.6**	1.7±	1.8	2.4±	2.1	2.0±	2.7	0.1±	0.3

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

TABLE F 2

HEMATOLOGY : FEMALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	5	8.41± 0.27	15.5± 0.5	44.5± 1.5	52.9± 0.2	18.5± 0.1	34.9± 0.2	916± 71
300ppm	5	8.52± 0.25	15.7± 0.6	45.2± 1.1	53.0± 0.4	18.5± 0.2	34.9± 0.4	956± 58
1000ppm	5	8.42± 0.28	15.5± 0.5	44.7± 1.2	53.1± 0.4	18.4± 0.2	34.7± 0.4	939± 69
3000ppm	4	8.30± 0.14	15.3± 0.2	43.6± 0.5	52.5± 0.6	18.5± 0.1	35.2± 0.3	271± 25**
10000ppm	1	4.88 ?	8.6 ?	24.2 ?	49.7 ?	17.7 ?	35.6 ?	6 ?

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RETICULOCYTE %	
Control	5	1.8±	0.1
300ppm	5	1.8±	0.2
1000ppm	5	1.6±	0.3
3000ppm	4	0.5±	0.1**
10000ppm	1	0.1	?

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$	Differential WBC (%) NEUTRO	LYMPHO	MONO	EOSINO	BASO	OTHER
Control	5	2.80± 0.84	20.5± 5.4	75.3± 5.4	2.0± 0.5	1.3± 0.5	0.2± 0.1	0.7± 0.3
300ppm	5	3.09± 0.69	19.4± 3.1	76.6± 3.4	2.1± 0.4	1.2± 0.1	0.2± 0.1	0.5± 0.2
1000ppm	5	2.59± 0.91	16.8± 4.0	79.4± 4.2	2.0± 0.2	0.9± 0.2	0.2± 0.2	0.6± 0.1
3000ppm	4	1.18± 0.11*	15.8± 4.6	80.5± 5.2	0.6± 0.2**	2.3± 1.1	0.4± 0.2	0.5± 0.3
10000ppm	1	0.18 ?	19.3 ?	71.1 ?	4.1 ?	5.5 ?	2.7 ?	0.0 ?

Significant difference ; * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

TABLE G 1

BIOCHEMISTRY : MALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

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	5	5.4± 0.1	3.2± 0.1	1.4± 0.1	0.03± 0.00	151± 20	64± 5	54± 9
300ppm	4	5.5± 0.1	3.2± 0.1	1.4± 0.1	0.03± 0.01	157± 12	68± 5	52± 3
1000ppm	5	5.3± 0.2	3.2± 0.1	1.4± 0.1	0.03± 0.00	157± 18	68± 6	49± 13
3000ppm	5	5.3± 0.1	3.1± 0.0	1.5± 0.1	0.04± 0.00	153± 14	68± 5	33± 6**
10000ppm !	3	5.3± 0.8	2.1± 0.4	0.7± 0.1	0.07± 0.03	129± 26	53± 27	21± 4

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	PHOSPHOLIPID mg／dℓ	AST U／L	ALT U／L	LDH U／L	ALP U／L	G-GTP U／L	CK U／L
Control	5	112± 5	59± 2	32± 2	81± 19	1086± 60	0.7± 0.1	219± 19
300ppm	4	116± 8	59± 3	29± 2	103± 50	1052± 72	0.6± 0.1	232± 46
1000ppm	5	113± 7	59± 3	27± 2*	82± 26	999± 76	0.7± 0.1	231± 29
3000ppm	5	106± 5	58± 6	25± 4**	89± 21	882± 13**	0.8± 0.1	225± 26
10000ppm !	3	94± 40	557± 672	443± 599	399± 528	270± 98	1.0± 0.4	255± 103

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	UREA NITROGEN mg／dℓ	CREATININE mg／dℓ	SODIUM mEq／ℓ	POTASSIUM mEq／ℓ	CHLORIDE mEq／ℓ	CALCIUM mg／dℓ	INORGANIC PHOSPHORUS mg／dℓ
Control	5	16.9± 1.0	0.22± 0.02	144± 0	3.6± 0.1	105± 0	10.0± 0.1	7.9± 0.2
300ppm	4	17.9± 0.7	0.24± 0.01	144± 1	3.5± 0.1	106± 1*	10.0± 0.1	7.7± 0.3
1000ppm	5	17.4± 1.5	0.22± 0.01	144± 1	3.8± 0.2	106± 1*	9.9± 0.2	8.1± 0.4
3000ppm	5	17.0± 1.1	0.21± 0.01	143± 2	4.2± 0.3**	108± 3**	10.1± 0.1	8.3± 0.3
10000ppm !	3	57.6± 30.3	0.20± 0.01	141± 3	5.2± 0.4	110± 4	10.3± 0.7	8.8± 1.7

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

TABLE G 2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

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	5	5.4±	0.2	3.2±	0.1	1.5±	0.0	0.03±	0.01	130±	7	77±	7	22±	6
300ppm	5	5.5±	0.2	3.3±	0.1	1.5±	0.0	0.03±	0.01	129±	9	79±	3	19±	5
1000ppm	5	5.5±	0.2	3.3±	0.1	1.5±	0.1	0.03±	0.01	134±	9	82±	3	20±	6
3000ppm	5	5.3±	0.2	3.2±	0.1	1.5±	0.1	0.04±	0.01*	150±	16*	88±	4**	21±	3
10000ppm !	2	5.4±	1.3	2.0±	0.2	0.6±	0.1	0.10±	0.01	98±	1	42±	4	28±	2

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	PHOSPHOLIPID mg/dℓ		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	5	138±	10	62±	3	27±	2	136±	52	810±	45	1.0±	0.2	233±	30
300ppm	5	138±	8	63±	4	27±	3	138±	43	786±	24	1.0±	0.2	240±	46
1000ppm	5	138±	4	60±	2	24±	2	122±	30	729±	38*	1.0±	0.1	225±	12
3000ppm	5	140±	5	57±	2*	22±	1**	103±	29	677±	57**	0.9±	0.1	207±	37
10000ppm !	2	89±	16	1429±	1322	1439±	1394	1674±	2198	248±	1	1.4±	0.3	1145±	1132

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	UREA NITROGEN mg／dℓ	CREATININE mg／dℓ	SODIUM mEq／ℓ	POTASSIUM mEq／ℓ	CHLORIDE mEq／ℓ	CALCIUM mg／dℓ	INORGANIC PHOSPHORUS mg／dℓ
Control	5	17.8± 0.6	0.24± 0.03	145± 2	3.5± 0.3	109± 2	9.8± 0.3	7.3± 0.4
300ppm	5	17.9± 0.8	0.25± 0.01	144± 2	3.5± 0.2	111± 3	9.8± 0.3	7.3± 0.2
1000ppm	5	17.5± 2.2	0.25± 0.02	144± 1	3.5± 0.0	111± 3	10.0± 0.1	7.3± 0.3
3000ppm	5	18.6± 1.2	0.23± 0.01	143± 2	3.9± 0.2*	112± 2	9.8± 0.5	7.3± 0.3
10000ppm !	2	97.4± 4.2	0.35± 0.08	142± 0	5.8± 0.6	107± 1	10.6± 0.8	11.7± 2.2

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

TABLE H 1

GROSS FINDINGS : MALE: ALL ANIMALS

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 3W)

Organ	Findings	Group Name / NO. of Animals	Control 5 (%)	300ppm 5 (%)	1000ppm 5 (%)	3000ppm 5 (%)
thymus	atrophic		0 (0)	0 (0)	0 (0)	5 (100)
stomach	glandular stomach:red zone		0 (0)	0 (0)	0 (0)	0 (0)
testis	red		0 (0)	0 (0)	0 (0)	0 (0)
	red zone		0 (0)	0 (0)	0 (0)	0 (0)
epididymis	red zone		0 (0)	0 (0)	0 (0)	0 (0)

Organ	Findings	Group Name / NO. of Animals	10000ppm 5	(%)
thymus	atrophic		5	(100)
stomach	glandular stomach:red zone		5	(100)
testis	red		2	(40)
	red zone		3	(60)
epididymis	red zone		2	(40)

TABLE H 2

GROSS FINDINGS : FEMALE: ALL ANIMALS

Organ	Findings	Group Name / NO. of Animals	Control 5	(%)	300ppm 5	(%)	1000ppm 5	(%)	3000ppm 5	(%)
thymus	atrophic		0	(0)	0	(0)	0	(0)	5	(100)
stomach	glandular stomach:red zone		0	(0)	0	(0)	0	(0)	0	(0)
liver	white zone		0	(0)	0	(0)	0	(0)	0	(0)
brain	red zone		0	(0)	0	(0)	0	(0)	0	(0)

Organ	Findings	Group Name NO. of Animals	10000ppm 5 (%)
thymus	atrophic		4 (80)
stomach	glandular stomach:red zone		5 (100)
liver	white zone		1 (20)
brain	red zone		1 (20)

TABLE H 3

GROSS FINDINGS : FEMALE

DEAD AND MORIBUND ANIMALS

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 3W)

Organ	Findings	Group Name / NO. of Animals	Control 0	(%)	300ppm 0	(%)	1000ppm 0	(%)	3000ppm 0	(%)
stomach	glandular stomach:red zone		-	(-)	-	(-)	-	(-)	-	(-)
liver	white zone		-	(-)	-	(-)	-	(-)	-	(-)
brain	red zone		-	(-)	-	(-)	-	(-)	-	(-)

Organ	Findings	Group Name	10000ppm
		NO. of Animals	1 (%)
stomach	glandular stomach:red zone		1 (100)
liver	white zone		1 (100)
brain	red zone		1 (100)

TABLE H 4

GROSS FINDINGS : FEMALE

SACRIFICED ANIMALS

Organ	Findings	Group Name / NO. of Animals	Control 5	(%)	300ppm 5	(%)	1000ppm 5	(%)	3000ppm 5	(%)
thymus	atrophic		0	(0)	0	(0)	0	(0)	5	(100)
stomach	glandular stomach:red zone		0	(0)	0	(0)	0	(0)	0	(0)

Organ	Findings	Group Name	10000ppm
		NO. of Animals	4 (%)
thymus	atrophic		4 (100)
stomach	glandular stomach:red zone		4 (100)

TABLE I 1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	157± 6	0.277± 0.030	0.050± 0.009	2.419± 0.105	0.607± 0.040	0.674± 0.036
300ppm	5	158± 7	0.269± 0.035	0.046± 0.002	2.314± 0.110	0.606± 0.013	0.687± 0.044
1000ppm	5	154± 7	0.236± 0.023	0.045± 0.008	2.128± 0.224*	0.596± 0.023	0.686± 0.009
3000ppm	5	134± 4**	0.087± 0.005**	0.042± 0.003	1.929± 0.066**	0.542± 0.025**	0.635± 0.021
10000ppm !	4	76± 8	0.022± 0.003	0.056± 0.006	1.035± 0.114	0.385± 0.023	0.450± 0.026

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN	EPIDIDYM
Control	5	1.214± 0.067	0.393± 0.029	4.714± 0.272	1.749± 0.014	0.295± 0.026
300ppm	5	1.230± 0.078	0.397± 0.026	4.887± 0.247	1.733± 0.018	0.261± 0.019
1000ppm	5	1.221± 0.067	0.376± 0.007	4.727± 0.209	1.695± 0.022**	0.261± 0.048
3000ppm	5	1.164± 0.013	0.285± 0.009**	4.237± 0.100**	1.668± 0.027**	0.258± 0.015
10000ppm !	4	0.980± 0.045	0.123± 0.034	3.674± 0.450	1.573± 0.011	0.152± 0.023

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

TABLE I 2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	111± 3	0.242± 0.016	0.051± 0.006	0.077± 0.011	0.476± 0.011	0.545± 0.029
300ppm	5	112± 5	0.244± 0.015	0.051± 0.006	0.089± 0.018	0.480± 0.032	0.580± 0.035
1000ppm	5	112± 5	0.214± 0.017*	0.052± 0.003	0.079± 0.013	0.480± 0.022	0.587± 0.034
3000ppm	5	101± 3**	0.091± 0.008**	0.046± 0.001	0.070± 0.008	0.433± 0.021*	0.545± 0.026
10000ppm !	3	63± 4	0.032± 0.012	0.067± 0.014	0.041± 0.005	0.332± 0.037	0.424± 0.045

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.933± 0.053	0.291± 0.016	3.497± 0.136	1.614± 0.026
300ppm	5	0.949± 0.040	0.292± 0.015	3.479± 0.200	1.605± 0.040
1000ppm	5	0.937± 0.041	0.294± 0.024	3.492± 0.226	1.629± 0.038
3000ppm	5	0.920± 0.030	0.232± 0.013**	3.215± 0.128	1.574± 0.026
10000ppm !	3	0.896± 0.073	0.104± 0.026	3.288± 0.761	1.498± 0.027

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

TABLE J 1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	157± 6	0.177± 0.016	0.032± 0.006	1.543± 0.054	0.387± 0.018	0.430± 0.014
300ppm	5	158± 7	0.171± 0.017	0.029± 0.001	1.469± 0.053	0.386± 0.020	0.436± 0.020
1000ppm	5	154± 7	0.154± 0.022	0.030± 0.007	1.381± 0.087**	0.388± 0.027	0.447± 0.020
3000ppm	5	134± 4**	0.065± 0.005**	0.032± 0.003	1.436± 0.060*	0.404± 0.012	0.473± 0.025**
10000ppm !	4	76± 8	0.030± 0.003	0.074± 0.013	1.375± 0.247	0.507± 0.025	0.594± 0.046

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN	EPIDIDYM
Control	5	0.774± 0.027	0.250± 0.010	3.005± 0.072	1.116± 0.035	0.188± 0.014
300ppm	5	0.781± 0.043	0.252± 0.010	3.101± 0.096	1.101± 0.051	0.165± 0.010
1000ppm	5	0.794± 0.007	0.245± 0.009	3.074± 0.059	1.104± 0.054	0.169± 0.024
3000ppm	5	0.866± 0.016**	0.212± 0.005**	3.153± 0.028**	1.242± 0.041**	0.192± 0.013
10000ppm !	4	1.295± 0.126	0.160± 0.026	4.818± 0.240	2.081± 0.211	0.201± 0.039

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

TABLE J 2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	111± 3	0.218± 0.010	0.046± 0.005	0.069± 0.011	0.429± 0.017	0.490± 0.021
300ppm	5	112± 5	0.217± 0.007	0.045± 0.006	0.079± 0.016	0.427± 0.022	0.516± 0.035
1000ppm	5	112± 5	0.191± 0.011**	0.047± 0.005	0.070± 0.010	0.430± 0.008	0.525± 0.016
3000ppm	5	101± 3**	0.090± 0.006**	0.045± 0.001	0.069± 0.006	0.427± 0.021	0.537± 0.012*
10000ppm !	3	63± 4	0.049± 0.017	0.106± 0.019	0.065± 0.005	0.523± 0.029	0.669± 0.057

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.840± 0.055	0.261± 0.010	3.145± 0.088	1.452± 0.042
300ppm	5	0.845± 0.015	0.260± 0.008	3.095± 0.106	1.430± 0.056
1000ppm	5	0.839± 0.032	0.262± 0.011	3.122± 0.070	1.459± 0.044
3000ppm	5	0.907± 0.028*	0.229± 0.009**	3.171± 0.094	1.553± 0.021**
10000ppm !	3	1.414± 0.035	0.162± 0.033	5.158± 0.949	2.370± 0.103

Significant difference : * : P ≦ 0.05 ** : P ≦ 0.01 Test of Dunnett

! : Significant test is not applied to this group.

TABLE K 1

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

ALL ANIMALS

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 1+ (%)	Control 2+ (%)	Control 3+ (%)	Control 4+ (%)	300ppm 1+ (%)	300ppm 2+ (%)	300ppm 3+ (%)	300ppm 4+ (%)	1000ppm 1+ (%)	1000ppm 2+ (%)	1000ppm 3+ (%)	1000ppm 4+ (%)	3000ppm 1+ (%)	3000ppm 2+ (%)	3000ppm 3+ (%)	3000ppm 4+ (%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	squamous cell metaplasia:respiratory epithelium		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 (20)	0 (0)	0 (0)	0 (0)
	hyperplasia:transitional epithelium		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)
	regeneration:transitional epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (80)	0 (0)	0 (0)	0 (0)
	regeneration:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (80)	0 (0)	0 (0)	0 (0)
	regeneration:olfactory epithelium		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)
	necrosis:olfactory epithelium		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)
{Digestive system}																		
stomach			< 5>				< 5>				< 5>				< 5>			
	hemorrhage		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)

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

Organ	Findings	Group Name / No. of Animals on Study / Grade	10000ppm 5 1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}						
nasal cavit			< 5>			
	squamous cell metaplasia:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:transitional epithelium		1 (20)	0 (0)	0 (0)	0 (0)
	regeneration:transitional epithelium		5 (100)	0 (0)	0 (0)	0 (0)
	regeneration:respiratory epithelium		5 (100)	0 (0)	0 (0)	0 (0)
	regeneration:olfactory epithelium		2 (40)	0 (0)	0 (0)	0 (0)
	necrosis:olfactory epithelium		4 (80)	0 (0)	0 (0)	0 (0)
{Digestive system}						
stomach			< 5>			
	hemorrhage		1 (20)	4 (80)	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

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 5 1+ (%)	Control 5 2+ (%)	Control 5 3+ (%)	Control 5 4+ (%)	300ppm 5 1+ (%)	300ppm 5 2+ (%)	300ppm 5 3+ (%)	300ppm 5 4+ (%)	1000ppm 5 1+ (%)	1000ppm 5 2+ (%)	1000ppm 5 3+ (%)	1000ppm 5 4+ (%)	3000ppm 5 1+ (%)	3000ppm 5 2+ (%)	3000ppm 5 3+ (%)	3000ppm 5 4+ (%)
{Digestive system}																		
liver		< 5>																
	necrosis:central		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)
{Reproductive system}																		
testis		< 5>																
	hemorrhage		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)
	germ cell necrosis		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		< 5>																
	decreased:sperma		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (20)	0 (0)	0 (0)	0 (0)	1 (20)	0 (0)	0 (0)	0 (0)
	debris of spermatic elements		0 (0)	0 (0)	0 (0)	0 (0)	2 (40)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
{Special sense organs/appendage}																		
nasolacr d		< 5>																
	squamous cell hyperplasia		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)

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

Organ	Findings	Group Name / Grade	10000ppm 1+ (%)	2+ (%)	3+ (%)	4+ (%)
		No. of Animals on Study	5			
{Digestive system}						
liver			< 5>			
	necrosis:central		2 (40)	2 (40)	0 (0)	0 (0)
{Reproductive system}						
testis			< 5>			
	hemorrhage		2 (40)	0 (0)	3 (60)	0 (0)
	germ cell necrosis		0 (0)	0 (0)	5 (100)	0 (0)
epididymis			< 5>			
	decreased:sperma		0 (0)	0 (0)	5 (100)	0 (0)
	debris of spermatic elements		2 (40)	3 (60)	0 (0)	0 (0)
{Special sense organs/appendage}						
nasolacr d			< 5>			
	squamous cell hyperplasia		2 (40)	3 (60)	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

TABLE K 2

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

ALL ANIMALS

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 5 1+ (%)	Control 5 2+ (%)	Control 5 3+ (%)	Control 5 4+ (%)	300ppm 5 1+ (%)	300ppm 5 2+ (%)	300ppm 5 3+ (%)	300ppm 5 4+ (%)	1000ppm 5 1+ (%)	1000ppm 5 2+ (%)	1000ppm 5 3+ (%)	1000ppm 5 4+ (%)	3000ppm 5 1+ (%)	3000ppm 5 2+ (%)	3000ppm 5 3+ (%)	3000ppm 5 4+ (%)
{Respiratory system}																		
nasal cavit		< 5>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	squamous cell metaplasia:respiratory epithelium		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	regeneration:transitional epithelium		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)
	regeneration:respiratory epithelium		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)
	regeneration:olfactory epithelium		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)
	necrosis:olfactory epithelium		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)
larynx		< 5>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	regenaration:epithelium		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
trachea		< 5>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	regenaration:epithelium		(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

Organ	Findings	Group Name / No. of Animals on Study / Grade	10000ppm 5 1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}						
nasal cavit			< 5>			
	squamous cell metaplasia:respiratory epithelium		1 (20)	0 (0)	0 (0)	0 (0)
	regeneration:transitional epithelium		5 (100)	0 (0)	0 (0)	0 (0)
	regeneration:respiratory epithelium		5 (100)	0 (0)	0 (0)	0 (0)
	regeneration:olfactory epithelium		5 (100)	0 (0)	0 (0)	0 (0)
	necrosis:olfactory epithelium		2 (40)	0 (0)	0 (0)	0 (0)
larynx			< 5>			
	regenaration:epithelium		3 (60)	0 (0)	0 (0)	0 (0)
trachea			< 5>			
	regenaration:epithelium		1 (20)	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

Organ	Findings	Group Name / Grade	Control 1+ (%)	Control 2+ (%)	Control 3+ (%)	Control 4+ (%)	300ppm 1+ (%)	300ppm 2+ (%)	300ppm 3+ (%)	300ppm 4+ (%)	1000ppm 1+ (%)	1000ppm 2+ (%)	1000ppm 3+ (%)	1000ppm 4+ (%)	3000ppm 1+ (%)	3000ppm 2+ (%)	3000ppm 3+ (%)	3000ppm 4+ (%)
		No. of Animals on Study	5				5				5				5			
{Respiratory system}																		
lung			< 5>				< 5>				< 5>				< 5>			
	congestion		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)
	edema:perivascular		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)
{Digestive system}																		
stomach			< 5>				< 5>				< 5>				< 5>			
	hemorrhage		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)
liver			< 5>				< 5>				< 5>				< 5>			
	necrosis:central		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)
{Reproductive system}																		
ovary			< 5>				< 5>				< 5>				< 5>			
	atrophy		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)

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

Organ	Findings	Group Name	10000ppm			
		No. of Animals on Study	5			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}						
lung			< 5>			
	congestion		1 (20)	0 (0)	0 (0)	0 (0)
	edema:perivascular		1 (20)	0 (0)	0 (0)	0 (0)
{Digestive system}						
stomach			< 5>			
	hemorrhage		2 (40)	3 (60)	0 (0)	0 (0)
liver			< 5>			
	necrosis:central		0 (0)	2 (40)	3 (60)	0 (0)
{Reproductive system}						
ovary			< 5>			
	atrophy		5 (100)	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

Organ	Findings	Group Name	Control				300ppm				1000ppm				3000ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
{Special sense organs/appendage}																		
nasolacr d			< 5>				< 5>				< 5>				< 5>			
	squamous cell hyperplasia		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)

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

Organ	Findings	Group Name	10000ppm			
		No. of Animals on Study	5			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Special sense organs/appendage}						
nasolacr d			< 5>			
	squamous cell hyperplasia		2 (40)	3 (60)	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

TABLE K 3

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

DEAD AND MORIBUND ANIMALS

STUDY NO. : 0834
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 3W)

Organ	Findings	Group Name / Grade	Control				300ppm				1000ppm				3000ppm			
		No. of Animals on Study	0				0				0				0			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}																	
nasal cavit		< 0>				< 0>				< 0>				< 0>			
	regeneration:transitional epithelium	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
	regeneration:respiratory epithelium	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
	regeneration:olfactory epithelium	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
larynx		< 0>				< 0>				< 0>				< 0>			
	regenaration:epithelium	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
{Digestive system}																	
stomach		< 0>				< 0>				< 0>				< 0>			
	hemorrhage	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)
liver		< 0>				< 0>				< 0>				< 0>			
	necrosis:central	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)	- (-)

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

Organ	Findings	Group Name / No. of Animals on Study / Grade	10000ppm 1 1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}						
nasal cavit			< 1>			
	regeneration:transitional epithelium		1 (100)	0 (0)	0 (0)	0 (0)
	regeneration:respiratory epithelium		1 (100)	0 (0)	0 (0)	0 (0)
	regeneration:olfactory epithelium		1 (100)	0 (0)	0 (0)	0 (0)
larynx			< 1>			
	regenaration:epithelium		1 (100)	0 (0)	0 (0)	0 (0)
{Digestive system}						
stomach			< 1>			
	hemorrhage		0 (0)	1 (100)	0 (0)	0 (0)
liver			< 1>			
	necrosis:central		0 (0)	0 (0)	1 (100)	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

Organ	Findings	Group Name / Grade	Control 1+ (%)	Control 2+ (%)	Control 3+ (%)	Control 4+ (%)	300ppm 1+ (%)	300ppm 2+ (%)	300ppm 3+ (%)	300ppm 4+ (%)	1000ppm 1+ (%)	1000ppm 2+ (%)	1000ppm 3+ (%)	1000ppm 4+ (%)	3000ppm 1+ (%)	3000ppm 2+ (%)	3000ppm 3+ (%)	3000ppm 4+ (%)
{Reproductive system}																		
ovary		No. of Animals on Study		0				0				0				0		
				< 0>				< 0>				< 0>				< 0>		
	atrophy		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
{Special sense organs/appendage}																		
nasolacr d		No. of Animals on Study		0				0				0				0		
				< 0>				< 0>				< 0>				< 0>		
	squamous cell hyperplasia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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

Organ	Findings	Group Name	10000ppm
		No. of Animals on Study	1
		Grade	1+ (%) / 2+ (%) / 3+ (%) / 4+ (%)
{Reproductive system}			
ovary			< 1>
	atrophy		1 (100) / 0 (0) / 0 (0) / 0 (0)
{Special sense organs/appendage}			
nasolacr d			< 1>
	squamous cell hyperplasia		0 (0) / 1 (100) / 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

TABLE K 4

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

SACRIFICED ANIMALS

Organ	Findings	Group Name	Control				300ppm				1000ppm				3000ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	squamous cell metaplasia:respiratory epithelium		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)
	regeneration:transitional epithelium		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)
	regeneration:respiratory epithelium		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)
	regeneration:olfactory epithelium		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)
	necrosis:olfactory epithelium		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)
larynx			< 5>				< 5>				< 5>				< 5>			
	regenaration:epithelium		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)
trachea			< 5>				< 5>				< 5>				< 5>			
	regenaration:epithelium		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)

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

Organ	Findings	Group Name	10000ppm			
		No. of Animals on Study	4			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}						
nasal cavit			< 4>			
	squamous cell metaplasia:respiratory epithelium		1 (25)	0 (0)	0 (0)	0 (0)
	regeneration:transitional epithelium		4 (100)	0 (0)	0 (0)	0 (0)
	regeneration:respiratory epithelium		4 (100)	0 (0)	0 (0)	0 (0)
	regeneration:olfactory epithelium		4 (100)	0 (0)	0 (0)	0 (0)
	necrosis:olfactory epithelium		2 (50)	0 (0)	0 (0)	0 (0)
larynx			< 4>			
	regenaration:epithelium		2 (50)	0 (0)	0 (0)	0 (0)
trachea			< 4>			
	regenaration:epithelium		1 (25)	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

Organ	Findings	Group Name	Control				300ppm				1000ppm				3000ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
{Respiratory system}																		
lung			< 5>				< 5>				< 5>				< 5>			
	congestion		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)
	edema:perivascular		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)
{Digestive system}																		
stomach			< 5>				< 5>				< 5>				< 5>			
	hemorrhage		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)
liver			< 5>				< 5>				< 5>				< 5>			
	necrosis:central		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)
{Reproductive system}																		
ovary			< 5>				< 5>				< 5>				< 5>			
	atrophy		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)

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

Organ	Findings	Group Name	10000ppm			
		No. of Animals on Study	4			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}						
lung			< 4>			
	congestion		1 (25)	0 (0)	0 (0)	0 (0)
	edema:perivascular		1 (25)	0 (0)	0 (0)	0 (0)
{Digestive system}						
stomach			< 4>			
	hemorrhage		2 (50)	2 (50)	0 (0)	0 (0)
liver			< 4>			
	necrosis:central		0 (0)	2 (50)	2 (50)	0 (0)
{Reproductive system}						
ovary			< 4>			
	atrophy		4 (100)	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

Organ	Findings	Group Name	Control				300ppm				1000ppm				3000ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Special sense organs/appendage}																		
nasolacr d			< 5>				< 5>				< 5>				< 5>			
	squamous cell hyperplasia		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)

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

Organ	Findings	Group Name	1+ (%)	2+ (%)	3+ (%)	4+ (%)
		No. of Animals on Study	4			
{Special sense organs/appendage}						
nasolacr d		< 4>				
	squamous cell hyperplasia	2	2 (50)	2 (50)	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