

2-ブロモプロパンのラットを用いた吸入による
13 週間毒性試験報告書

試験番号：0845

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TABLE A

**CONCENTRATIONS OF 2-BROMOPROPANE
IN THE INHALATION CHAMBER
OF THE 13-WEEK INHALATION STUDY**

CONCENTRATIONS OF 2-BROMOPROPANE IN THE INHALATION
CHAMBER OF THE 13-WEEK INHALATION STUDY

Group Name	Concentration(ppm) Mean $\pm$ S.D.
Control	0.0 $\pm$ 0.0
100 ppm	100.0 $\pm$ 0.4
300 ppm	300.0 $\pm$ 1.1
1000 ppm	1000.8 $\pm$ 2.1
2000 ppm	2000.4 $\pm$ 4.2
3000 ppm	3001.3 $\pm$ 6.7

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 1

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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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. : 0845
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 2

Group	Name	Animals At start	Administration (Days)													
			2-7	3-1	3-2	3-3	3-4	3-5	3-6	3-7	4-1	4-2	4-3	4-4	4-5	4-6
	Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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. : 0845
ANIMAL : RAT F344/DuCrIGrlj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 3

Group	Name	Animals At start	Administration (Days)													
			4-7	5-1	5-2	5-3	5-4	5-5	5-6	5-7	6-1	6-2	6-3	6-4	6-5	6-6
	Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	9/10	9/10	9/10	9/10
			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.0	90.0	90.0
Number of survival/			Number of effective animals													
Survival rate(%)																

STUDY NO. : 0845

ANIMAL : RAT F344/DuCrI CrI j[F344/DuCrj]

REPORT TYPE : A1 13

SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 4

Group	Name	Animals At start	Administration (Days)		7-2	7-3	7-4	7-5	7-6	7-7	8-1	8-2	8-3	8-4	8-5	8-6
			6-7	7-1												
	Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10
			90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
Number of survival/ Number of effective animals																
Survival rate(%)																

(HAN360)

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STUDY NO. : 0845
ANIMAL : RAT F344/DuCrI CrI j[F344/DuCrj]
REPORT TYPE : A1 13
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 5

Group	Name	Animals At start	Administration (Days)													
			8-7	9-1	9-2	9-3	9-4	9-5	9-6	9-7	10-1	10-2	10-3	10-4	10-5	10-6
	Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	8/10	8/10	8/10	8/10	8/10	8/10
			90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	80.0	80.0	80.0	80.0	80.0
Number of survival/ Number of effective animals																
Survival rate(%)																

STUDY NO. : 0845
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : MALE

SURVIVAL ANIMAL NUMBERS

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Group Name	Animals At start	Administration (Days)													
		10-7	11-1	11-2	11-3	11-4	11-5	11-6	11-7	12-1	12-2	12-3	12-4	12-5	12-6
Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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	10	8/10	8/10	8/10	8/10	7/10	7/10	7/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10
		80.0	80.0	80.0	80.0	70.0	70.0	70.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Number of survival/ Number of effective animals															
Survival rate(%)															

STUDY NO. : 0845
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 7

Group Name	Animals At start	Administration (Days)							
		12-7	13-1	13-2	13-3	13-4	13-5	13-6	13-7
Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3000ppm	10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10
		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Number of survival/ Number of effective animals Survival rate(%)									

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCrIGrIj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 8

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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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. : 0845
ANIMAL : RAT F344/DuCrIGrlj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

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Group	Name	Animals At start	Administration (Days)													
			2-7	3-1	3-2	3-3	3-4	3-5	3-6	3-7	4-1	4-2	4-3	4-4	4-5	4-6
	Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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. : 0845
ANIMAL : RAT F344/DuCrIGrj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 10

Group	Name	Animals At start	Administration (Days)													
			4-7	5-1	5-2	5-3	5-4	5-5	5-6	5-7	6-1	6-2	6-3	6-4	6-5	6-6
	Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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. : 0845
ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 11

Group	Name	Animals At start	Administration (Days)													
			6-7	7-1	7-2	7-3	7-4	7-5	7-6	7-7	8-1	8-2	8-3	8-4	8-5	8-6
	Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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. : 0845
ANIMAL : RAT F344/DuCrIGrj[F344/DuCrj]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 12

Group Name	Animals At start	Administration (Days)		9-2	9-3	9-4	9-5	9-6	9-7	10-1	10-2	10-3	10-4	10-5	10-6
		8-7	9-1												
Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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
2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		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. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 13

Group	Name	Animals At start	Administration (Days)													
			10-7	11-1	11-2	11-3	11-4	11-5	11-6	11-7	12-1	12-2	12-3	12-4	12-5	12-6
	Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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
	2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
			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	10	10/10	10/10	10/10	10/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10
			100.0	100.0	100.0	100.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
Number of survival/ Number of effective animals																
Survival rate(%)																

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1 13
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 14

Group Name	Animals At start	Administration (Days)							
		12-7	13-1	13-2	13-3	13-4	13-5	13-6	13-7
Control	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300pm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000ppm	10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3000ppm	10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10
		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
Number of survival/ Number of effective animals Survival rate(%)									

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7
		1-7	2-7	3-7										
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000ppm	0	0	0	0	0	0	0	0	0	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000ppm	0	0	0	0	0	1	1	1	1	1	3	3	3
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000ppm	0	0	0	0	0	0	0	0	1	0	0	0	0
LACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000ppm	0	0	0	0	0	0	0	0	0	0	0	0	2
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000ppm	0	0	0	1	1	0	0	1	2	2	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000ppm	0	0	0	0	0	0	0	0	1	0	0	0	0

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 13

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day			4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7
		1-7	2-7	3-7										
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000ppm	0	0	0	0	0	0	0	0	0	0	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000ppm	0	0	0	0	0	0	0	0	0	0	0	1	2
LACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	0	4	2
	3000ppm	0	0	0	0	0	0	0	0	0	0	0	4	2
EYE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	4	0	0
	3000ppm	0	0	0	0	0	0	0	0	0	0	3	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	300ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	2000ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000ppm	0	0	0	0	0	0	0	0	0	2	1	1	1

TABLE D1

**BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE**

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control			100ppm			300ppm			1000ppm			2000ppm			3000ppm		
	Av. Wt.	No. of Surviv. <10>		Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.
0-0	112 (10)	10/10		112 (10)	100	10/10	112 (10)	100	10/10	112 (10)	100	10/10	112 (10)	100	10/10	112 (10)	100	10/10
1-7	139 (10)	10/10		140 (10)	101	10/10	141 (10)	101	10/10	141 (10)	101	10/10	135 (10)	97	10/10	134 (10)	96	10/10
2-7	171 (10)	10/10		173 (10)	101	10/10	174 (10)	102	10/10	170 (10)	99	10/10	155 (10)	91	10/10	153 (10)	89	10/10
3-7	198 (10)	10/10		203 (10)	103	10/10	200 (10)	101	10/10	195 (10)	98	10/10	173 (10)	87	10/10	167 (10)	84	10/10
4-7	218 (10)	10/10		222 (10)	102	10/10	219 (10)	100	10/10	211 (10)	97	10/10	184 (10)	84	10/10	171 (10)	78	10/10
5-7	233 (10)	10/10		238 (10)	102	10/10	233 (10)	100	10/10	223 (10)	96	10/10	190 (10)	82	10/10	170 (10)	73	10/10
6-7	248 (10)	10/10		254 (10)	102	10/10	248 (10)	100	10/10	236 (10)	95	10/10	195 (10)	79	10/10	178 (9)	72	9/10
7-7	260 (10)	10/10		265 (10)	102	10/10	260 (10)	100	10/10	245 (10)	94	10/10	199 (10)	77	10/10	178 (9)	68	9/10
8-7	271 (10)	10/10		276 (10)	102	10/10	267 (10)	99	10/10	253 (10)	93	10/10	200 (10)	74	10/10	178 (9)	66	9/10
9-7	281 (10)	10/10		286 (10)	102	10/10	279 (10)	99	10/10	261 (10)	93	10/10	205 (10)	73	10/10	174 (9)	62	9/10
10-7	288 (10)	10/10		294 (10)	102	10/10	285 (10)	99	10/10	266 (10)	92	10/10	206 (10)	72	10/10	173 (8)	60	8/10
11-7	293 (10)	10/10		299 (10)	102	10/10	288 (10)	98	10/10	268 (10)	91	10/10	207 (10)	71	10/10	179 (6)	61	6/10
12-7	296 (10)	10/10		303 (10)	102	10/10	292 (10)	99	10/10	271 (10)	92	10/10	208 (10)	70	10/10	179 (6)	60	6/10
13-7	299 (10)	10/10		308 (10)	103	10/10	297 (10)	99	10/10	274 (10)	92	10/10	210 (10)	70	10/10	170 (6)	57	6/10
< >:No. of effective animals, ():No. of measured animals																		
Av. Wt. : g																		

(B10040)

BAIS 5

TABLE D2

**BODY WEIGHT CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE**

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		100ppm			300ppm			1000ppm			2000ppm			3000ppm		
	Av. Wt.	No. of Surviv. <10>	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.	Av. Wt.	% of cont. <10>	No. of Surviv.
0-0	91 (10)	10/10	91 (10)	100	10/10	91 (10)	100	10/10	91 (10)	100	10/10	91 (10)	100	10/10	91 (10)	100	10/10
1-7	106 (10)	10/10	106 (10)	100	10/10	107 (10)	101	10/10	106 (10)	100	10/10	104 (10)	98	10/10	102 (10)	96	10/10
2-7	121 (10)	10/10	121 (10)	100	10/10	122 (10)	101	10/10	118 (10)	98	10/10	114 (10)	94	10/10	109 (10)	90	10/10
3-7	131 (10)	10/10	131 (10)	100	10/10	133 (10)	102	10/10	128 (10)	98	10/10	121 (10)	92	10/10	116 (10)	89	10/10
4-7	139 (10)	10/10	138 (10)	99	10/10	141 (10)	101	10/10	135 (10)	97	10/10	125 (10)	90	10/10	118 (10)	85	10/10
5-7	145 (10)	10/10	143 (10)	99	10/10	147 (10)	101	10/10	138 (10)	95	10/10	126 (10)	87	10/10	120 (10)	83	10/10
6-7	153 (10)	10/10	152 (10)	99	10/10	154 (10)	101	10/10	144 (10)	94	10/10	130 (10)	85	10/10	121 (10)	79	10/10
7-7	157 (10)	10/10	157 (10)	100	10/10	159 (10)	101	10/10	149 (10)	95	10/10	133 (10)	85	10/10	123 (10)	78	10/10
8-7	162 (10)	10/10	161 (10)	99	10/10	162 (10)	100	10/10	150 (10)	93	10/10	135 (10)	83	10/10	125 (10)	77	10/10
9-7	165 (10)	10/10	164 (10)	99	10/10	165 (10)	100	10/10	153 (10)	93	10/10	136 (10)	82	10/10	124 (10)	75	10/10
10-7	166 (10)	10/10	167 (10)	101	10/10	170 (10)	102	10/10	156 (10)	94	10/10	134 (10)	81	10/10	121 (10)	73	10/10
11-7	171 (10)	10/10	171 (10)	100	10/10	172 (10)	101	10/10	157 (10)	92	10/10	135 (10)	79	10/10	117 (9)	68	9/10
12-7	172 (10)	10/10	171 (10)	99	10/10	173 (10)	101	10/10	156 (10)	91	10/10	136 (10)	79	10/10	122 (9)	71	9/10
13-7	174 (10)	10/10	174 (10)	100	10/10	176 (10)	101	10/10	158 (10)	91	10/10	137 (10)	79	10/10	120 (9)	69	9/10
< >:No. of effective animals, ():No. of measured animals Av. Wt.: g																	

(B10040)

BA155

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration		week-day											
	0-0		1-7		2-7		3-7		4-7		5-7		6-7	
Control	112±	4	139±	7	171±	10	198±	9	218±	10	233±	11	248±	13
100ppm	112±	5	140±	7	173±	10	203±	10	222±	11	238±	12	254±	13
300pm	112±	4	141±	6	174±	10	200±	11	219±	11	233±	12	248±	11
1000ppm	112±	4	141±	6	170±	6	195±	6	211±	6	223±	7	236±	8*
2000ppm	112±	5	135±	7	155±	8**	173±	9**	184±	9**	190±	9**	195±	10**
3000ppm	112±	4	134±	4	153±	6**	167±	7**	171±	7**	170±	17**	178±	7**

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

Test of Dunnett

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 2

Group Name	Administration		week-day													
	7-7		8-7		9-7		10-7		11-7		12-7		13-7			
Control	260±	12	271±	15	281±	17	288±	18	293±	18	296±	18	299±	19		
100ppm	265±	14	276±	15	286±	14	294±	14	299±	13	303±	14	308±	13		
300pm	260±	11	267±	13	279±	12	285±	12	288±	13	292±	12	297±	14		
1000ppm	245±	10*	253±	10**	261±	12**	266±	11**	268±	11**	271±	12**	274±	12**		
2000ppm	199±	10**	200±	10**	205±	9**	206±	9**	207±	10**	208±	9**	210±	7**		
3000ppm	178±	6**	178±	6**	174±	15**	173±	11**	179±	8**	179±	9**	170±	20**		

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

Test of Dunnett

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 3

Group Name	Administration		week-day											
	0-0		1-7		2-7		3-7		4-7		5-7		6-7	
Control	91±	3	106±	4	121±	5	131±	7	139±	7	145±	8	153±	8
100ppm	91±	3	106±	3	121±	4	131±	5	138±	7	143±	7	152±	7
300pm	91±	3	107±	4	122±	4	133±	7	141±	6	147±	6	154±	6
1000ppm	91±	3	106±	4	118±	4	128±	4	135±	4	138±	4*	144±	6**
2000ppm	91±	3	104±	5	114±	5**	121±	5**	125±	5**	126±	6**	130±	7**
3000ppm	91±	3	102±	3	109±	3**	116±	4**	118±	4**	120±	4**	121±	4**

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

Test of Dunnett

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration		week-day											
	7-7		8-7		9-7		10-7		11-7		12-7		13-7	
Control	157±	6	162±	7	165±	6	166±	7	171±	8	172±	7	174±	6
100ppm	157±	7	161±	8	164±	8	167±	7	171±	8	171±	9	174±	9
300ppm	159±	7	162±	7	165±	9	170±	9	172±	9	173±	9	176±	8
1000ppm	149±	6*	150±	5**	153±	6**	156±	6**	157±	7**	156±	6**	158±	7**
2000ppm	133±	7**	135±	7**	136±	7**	134±	5**	135±	6**	136±	6**	137±	7**
3000ppm	123±	4**	125±	4**	124±	5**	121±	5**	117±	7**	122±	5**	120±	8**

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

Test of Dunnett

TABLE E1

**FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS : MALE**

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control			100ppm			300ppm			1000ppm			2000ppm			3000ppm		
	Av. FC.	No. of Surviv. <10>		Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.
1-7	15.3 (10)	10/10		14.6 (10)	95	10/10	15.0 (10)	98	10/10	14.7 (10)	96	10/10	14.1 (10)	92	10/10	13.4 (10)	88	10/10
2-7	16.8 (10)	10/10		16.4 (10)	98	10/10	16.5 (10)	98	10/10	16.4 (10)	98	10/10	14.6 (10)	87	10/10	14.0 (10)	83	10/10
3-7	18.0 (10)	10/10		17.8 (10)	99	10/10	17.4 (10)	97	10/10	16.7 (10)	93	10/10	14.8 (10)	82	10/10	13.8 (10)	77	10/10
4-7	17.7 (10)	10/10		17.4 (10)	98	10/10	17.0 (10)	96	10/10	16.6 (10)	94	10/10	14.3 (10)	81	10/10	12.4 (10)	70	10/10
5-7	17.8 (10)	10/10		17.8 (10)	100	10/10	17.4 (10)	98	10/10	16.9 (10)	95	10/10	14.2 (10)	80	10/10	12.0 (10)	67	10/10
6-7	17.7 (10)	10/10		17.9 (10)	101	10/10	17.2 (10)	97	10/10	16.7 (10)	94	10/10	13.9 (10)	79	10/10	12.0 (9)	68	9/10
7-7	17.3 (10)	10/10		17.4 (10)	101	10/10	16.8 (10)	97	10/10	16.5 (10)	95	10/10	13.2 (10)	76	10/10	11.7 (9)	68	9/10
8-7	17.2 (10)	10/10		17.4 (10)	101	10/10	16.6 (10)	97	10/10	16.3 (10)	95	10/10	13.1 (10)	76	10/10	11.5 (9)	67	9/10
9-7	16.9 (10)	10/10		17.4 (10)	103	10/10	17.1 (10)	101	10/10	16.0 (10)	95	10/10	13.0 (10)	77	10/10	10.4 (9)	62	9/10
10-7	16.8 (10)	10/10		17.0 (10)	101	10/10	16.5 (10)	98	10/10	15.7 (10)	93	10/10	12.4 (10)	74	10/10	9.8 (8)	58	8/10
11-7	16.3 (10)	10/10		17.0 (10)	104	10/10	16.2 (10)	99	10/10	15.2 (10)	93	10/10	12.1 (10)	74	10/10	10.6 (6)	65	6/10
12-7	16.2 (10)	10/10		16.7 (10)	103	10/10	16.3 (10)	101	10/10	15.1 (10)	93	10/10	12.0 (10)	74	10/10	10.3 (6)	64	6/10
13-7	16.0 (10)	10/10		16.8 (10)	105	10/10	16.2 (10)	101	10/10	15.1 (10)	94	10/10	12.2 (10)	76	10/10	9.4 (6)	59	6/10

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

(B10040)

BAIS 5

TABLE E2

**FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL
NUMBERS : FEMALE**

STUDY NO. : 0845
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
UNIT : g
REPORT TYPE : A1 13
SEX : FEMALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		100ppm		300ppm		1000ppm		2000ppm		3000ppm						
	Av. FC.	No. of Surviv. <10>	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.	Av. FC.	% of cont. <10>	No. of Surviv.
1-7	11.6 (10)	10/10	11.8 (10)	102	10/10	11.7 (10)	101	10/10	11.4 (10)	98	10/10	11.2 (10)	97	10/10	10.9 (10)	94	10/10
2-7	12.1 (10)	10/10	12.4 (10)	102	10/10	12.8 (10)	106	10/10	12.1 (10)	100	10/10	11.1 (10)	92	10/10	10.9 (10)	90	10/10
3-7	11.6 (10)	10/10	11.4 (10)	98	10/10	12.4 (10)	107	10/10	11.8 (10)	102	10/10	10.8 (10)	93	10/10	10.3 (10)	89	10/10
4-7	11.6 (10)	10/10	11.4 (10)	98	10/10	12.4 (10)	107	10/10	11.7 (10)	101	10/10	10.4 (10)	90	10/10	9.6 (10)	83	10/10
5-7	11.8 (10)	10/10	11.7 (10)	99	10/10	12.4 (10)	105	10/10	11.6 (10)	98	10/10	10.3 (10)	87	10/10	9.5 (10)	81	10/10
6-7	11.6 (10)	10/10	11.5 (10)	99	10/10	12.2 (10)	105	10/10	11.2 (10)	97	10/10	9.9 (10)	85	10/10	9.2 (10)	79	10/10
7-7	11.4 (10)	10/10	11.5 (10)	101	10/10	12.2 (10)	107	10/10	11.5 (10)	101	10/10	9.9 (10)	87	10/10	9.2 (10)	81	10/10
8-7	11.7 (10)	10/10	11.5 (10)	98	10/10	11.8 (10)	101	10/10	11.2 (10)	96	10/10	9.9 (10)	85	10/10	9.4 (10)	80	10/10
9-7	11.6 (10)	10/10	11.4 (10)	98	10/10	11.8 (10)	102	10/10	11.0 (10)	95	10/10	9.9 (10)	85	10/10	9.0 (10)	78	10/10
10-7	11.0 (10)	10/10	11.6 (10)	105	10/10	11.9 (10)	108	10/10	11.1 (10)	101	10/10	9.2 (10)	84	10/10	8.0 (10)	73	10/10
11-7	11.5 (10)	10/10	11.5 (10)	100	10/10	11.7 (10)	102	10/10	10.8 (10)	94	10/10	9.0 (10)	78	10/10	8.1 (9)	70	9/10
12-7	11.4 (10)	10/10	10.9 (10)	96	10/10	11.6 (10)	102	10/10	10.2 (10)	89	10/10	9.1 (10)	80	10/10	8.1 (9)	71	9/10
13-7	11.8 (10)	10/10	11.3 (10)	96	10/10	11.7 (10)	99	10/10	10.6 (10)	90	10/10	9.0 (10)	76	10/10	7.8 (9)	66	9/10
< >:No. of effective animals, ():No. of measured animals																	
Av. FC.: g																	

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

(B10040)

BAIS 5

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 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	15.3± 1.3	16.8± 2.1	18.0± 2.1	17.7± 1.5	17.8± 1.3	17.7± 1.4	17.3± 1.3
100ppm	14.6± 0.8	16.4± 0.9	17.8± 1.2	17.4± 1.0	17.8± 1.0	17.9± 1.1	17.4± 1.0
300pm	15.0± 0.5	16.5± 0.8	17.4± 1.1	17.0± 1.2	17.4± 0.9	17.2± 1.3	16.8± 1.1
1000ppm	14.7± 0.7	16.4± 0.6	16.7± 0.8	16.6± 0.8	16.9± 0.7	16.7± 1.0	16.5± 1.0
2000ppm	14.1± 0.9*	14.6± 1.0**	14.8± 0.8**	14.3± 0.8**	14.2± 0.6**	13.9± 0.7**	13.2± 0.7**
3000ppm	13.4± 0.6**	14.0± 0.5**	13.8± 0.3**	12.4± 0.5**	12.0± 2.7**	12.0± 0.6**	11.7± 0.6**

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

Test of Dunnett

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 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)
Control	17.2± 1.3	16.9± 1.4	16.8± 1.3	16.3± 1.2	16.2± 1.2	16.0± 1.2
100ppm	17.4± 1.1	17.4± 0.9	17.0± 0.8	17.0± 0.9	16.7± 0.7	16.8± 0.8
300pm	16.6± 0.9	17.1± 0.8	16.5± 0.7	16.2± 0.7	16.3± 0.7	16.2± 0.7
1000ppm	16.3± 0.7	16.0± 0.9	15.7± 0.8	15.2± 0.7*	15.1± 0.7*	15.1± 0.8*
2000ppm	13.1± 0.6**	13.0± 0.8**	12.4± 0.7**	12.1± 1.2**	12.0± 0.5**	12.2± 0.3**
3000ppm	11.5± 0.4**	10.4± 1.6**	9.8± 1.6**	10.6± 0.6**	10.3± 0.4**	9.4± 1.6**

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

Test of Dunnett

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 3

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	11.6± 0.6	12.1± 0.7	11.6± 1.0	11.6± 0.9	11.8± 0.9	11.6± 0.8	11.4± 0.5
100ppm	11.8± 0.9	12.4± 0.8	11.4± 0.7	11.4± 0.6	11.7± 0.7	11.5± 0.6	11.5± 0.7
300pm	11.7± 0.8	12.8± 1.4	12.4± 1.1	12.4± 1.0	12.4± 1.0	12.2± 1.0	12.2± 0.8
1000ppm	11.4± 0.7	12.1± 0.5	11.8± 0.6	11.7± 0.6	11.6± 0.4	11.2± 0.5	11.5± 0.7
2000ppm	11.2± 0.8	11.1± 1.0*	10.8± 0.8	10.4± 1.0*	10.3± 0.9**	9.9± 0.9**	9.9± 0.9**
3000ppm	10.9± 0.5	10.9± 0.8**	10.3± 0.5**	9.6± 0.6**	9.5± 0.6**	9.2± 0.3**	9.2± 0.4**

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

Test of Dunnett

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 13
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 4

Group Name	Administration 8-7 (7)	week-day(effective) 9-7 (7)	10-7 (7)	11-7 (7)	12-7 (7)	13-7 (7)
Control	11.7± 0.7	11.6± 0.6	11.0± 0.9	11.5± 0.8	11.4± 0.6	11.8± 0.5
100ppm	11.5± 0.8	11.4± 0.7	11.6± 0.8	11.5± 0.9	10.9± 0.9	11.3± 1.1
300pm	11.8± 0.8	11.8± 0.9	11.9± 0.9*	11.7± 0.9	11.6± 0.6	11.7± 0.6
1000ppm	11.2± 0.6	11.0± 0.7	11.1± 0.6	10.8± 0.6	10.2± 0.6**	10.6± 0.6**
2000ppm	9.9± 1.0**	9.9± 0.8**	9.2± 0.8**	9.0± 0.7**	9.1± 0.8**	9.0± 0.6**
3000ppm	9.4± 0.7**	9.0± 0.7**	8.0± 0.4**	8.1± 0.4**	8.1± 0.5**	7.8± 1.0**

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

Test of Dunnett

TABLE F1

ESTROUS CYCLE : FEMALE

STUDY NO. : 0845

ESTROUS CYCLE (SUMMARY)

ANIMAL : RAT F344/DuCrI CrIj

ALL ANIMALS

SEX : FEMALE

PAGE : 1

Group Name	Control	100 ppm	300 ppm	1000 ppm	2000 ppm	3000 ppm
No. of animals examined	10	10	10	10	10	10
Normal ¹⁾	10	10	10	10	0	0
Abnormal ^{1), 3)}	0	0	0	0	10	10
Cycle (days) ²⁾	5.0 ± 0.1	5.0 ± 0.0	5.0 ± 0.0	5.0 ± 0.2	8.8 ± 2.0 **	—

¹⁾ Data represent the number of animals.

²⁾ Data represent mean ± S.D.

³⁾ Continuous 8-day or longer diestrus.

Significant difference ; * : $p \leq 0.05$ ** : $p \leq 0.01$.

Test of Dunnett

TABLE G1

URINALYSIS : MALE

STUDY NO. : 0845

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

URINALYSIS

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin					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+	4+	
Control	10	0	0	0	0	1	6	3		1	6	2	1	0	0		10	0	0	0	0	0		7	2	1	0	0	0		10	0	0	0		
100ppm	10	0	0	0	1	1	5	3		1	4	4	1	0	0		10	0	0	0	0	0		3	5	2	0	0	0		10	0	0	0		
300pm	10	0	0	1	0	2	5	2		2	4	2	2	0	0		10	0	0	0	0	0		5	4	1	0	0	0		10	0	0	0		
1000ppm	10	0	0	0	0	0	8	2		0	6	4	0	0	0		10	0	0	0	0	0		6	4	0	0	0	0		10	0	0	0		
2000ppm	10	0	0	0	1	0	3	6		0	6	1	3	0	0		10	0	0	0	0	0		6	1	3	0	0	0		10	0	0	0		
3000ppm	6	0	0	0	0	0	2	4		0	1	2	3	0	0		6	0	0	0	0	0		2	3	1	0	0	0		6	0	0	0		

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

Test of CHI SQUARE

(HCL101)

BAIS5

STUDY NO. : 0845

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

URINALYSIS

PAGE : 2

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	10	10	0	0	0	0	0	10	0	0	0	0	0
100ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
300pm	10	10	0	0	0	0	0	10	0	0	0	0	0
1000ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
2000ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
3000ppm	6	6	0	0	0	0	0	6	0	0	0	0	0

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of CHI SQUARE

TABLE G2

URINALYSIS : FEMALE

STUDY NO. : 0845

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

URINALYSIS

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin				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	10	0	0	0	0	1	4	5		8	1	1	0	0	0		10	0	0	0	0	0		9	0	1	0	0	0		10	0	0	0	
100ppm	10	0	0	0	0	2	5	3		8	1	1	0	0	0		10	0	0	0	0	0		9	1	0	0	0	0		10	0	0	0	
300pm	10	0	0	0	0	4	4	2		9	0	1	0	0	0		10	0	0	0	0	0		9	1	0	0	0	0		10	0	0	0	
1000ppm	10	0	0	0	0	0	2	8		7	3	0	0	0	0		10	0	0	0	0	0		9	1	0	0	0	0		10	0	0	0	
2000ppm	10	0	0	0	0	1	1	8		5	0	4	1	0	0		10	0	0	0	0	0		5	3	2	0	0	0		10	0	0	0	
3000ppm	9	0	1	0	0	0	2	6		2	4	2	1	0	0		9	0	0	0	0	0		6	3	0	0	0	0		9	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BA155

STUDY NO. : 0845

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

URINALYSIS

PAGE : 4

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		-	±	+	2+	3+		±	+	2+	3+	4+	
Control	10	10	0	0	0	0	0	10	0	0	0	0	0
100ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
300ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
1000ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
2000ppm	10	10	0	0	0	0	0	10	0	0	0	0	0
3000ppm	9	9	0	0	0	0	0	9	0	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS 5

TABLE H1

HEMATOLOGY : MALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
MEASURE TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 1 O ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 1 O ³ /μl	
Control	10	9.11±	0.12	15.2±	0.3	44.8±	0.5	49.1±	0.4	16.7±	0.2	34.0±	0.5	645±	97
100ppm	10	9.20±	0.14	15.3±	0.3	45.2±	0.7	49.1±	0.3	16.7±	0.2	33.9±	0.3	704±	45*
300pm	10	9.13±	0.19	15.4±	0.3	45.0±	0.8	49.3±	0.5	16.8±	0.3	34.1±	0.5	634±	19
1000ppm	10	8.17±	0.19**	14.9±	0.3*	43.3±	0.8**	53.0±	0.4**	18.2±	0.2**	34.4±	0.3	586±	53*
2000ppm	10	6.55±	0.64**	13.7±	1.0**	39.9±	2.8**	61.1±	2.1**	20.9±	0.7**	34.3±	0.4	316±	187**
3000ppm	6	5.06±	1.99**	10.9±	4.0**	32.1±	11.0**	65.1±	5.4**	21.8±	0.9**	33.5±	1.8	168±	209**

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

Test of Dunnett

STUDY NO. : 0845
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %		PROTHROMBIN TIME s e c		APTT s e c	
Control	10	2.0±	0.1	12.7±	0.7	18.0±	1.3
100ppm	10	1.9±	0.2	12.3±	0.4	17.8±	1.1
300pm	10	1.8±	0.3	12.2±	0.3	17.7±	0.7
1000ppm	10	2.0±	0.1	12.1±	0.5	15.9±	1.8*
2000ppm	10	3.7±	1.3**	12.2±	0.3	14.8±	1.1**
3000ppm	6	8.3±	6.6**	12.3±	0.5	15.1±	3.0*

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

Test of Dunnett

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
				NEUTRO		LYMPHO									
Control	10	5.52±	1.04	30.8±	7.3	65.3±	7.2	1.9±	0.3	1.4±	0.3	0.1±	0.1	0.6±	0.3
100ppm	10	5.37±	1.05	27.7±	4.3	68.1±	4.7	2.2±	0.5	1.3±	0.3	0.1±	0.1	0.6±	0.2
300ppm	10	4.69±	0.93	27.0±	3.4	69.4±	3.7	1.8±	0.4	1.0±	0.2*	0.2±	0.1	0.6±	0.4
1000ppm	10	2.56±	0.32**	22.6±	3.3*	74.4±	3.7**	1.6±	0.5	0.8±	0.2**	0.1±	0.1	0.5±	0.2
2000ppm	10	0.88±	0.54**	27.4±	7.9	69.1±	8.4	2.0±	0.9	0.8±	0.7**	0.3±	0.2**	0.5±	0.4
3000ppm	6	0.42±	0.22**	21.1±	10.6	75.9±	11.8	1.5±	1.2	1.2±	0.5	0.6±	0.8**	0.2±	0.3

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

Test of Dunnett

TABLE H2

HEMATOLOGY : FEMALE

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (14W)

PAGE : 4

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ⁹ /μl	
Control	10	8.64±	0.20	15.5±	0.4	44.4±	0.9	51.4±	0.3	18.0±	0.2	34.9±	0.2	810±	33
100ppm	10	8.64±	0.21	15.6±	0.4	44.6±	0.9	51.7±	0.4	18.1±	0.3	35.1±	0.4	782±	34
300ppm	10	8.51±	0.15	15.5±	0.3	44.2±	0.8	51.9±	0.2**	18.3±	0.4*	35.2±	0.7	746±	40**
1000ppm	10	7.84±	0.20**	14.8±	0.3**	42.3±	0.9**	54.0±	0.3**	18.9±	0.3**	35.0±	0.5	670±	43**
2000ppm	10	6.89±	0.47**	14.1±	0.7**	40.2±	2.2**	58.5±	1.3**	20.4±	0.6**	35.0±	0.4	351±	217**
3000ppm	9	5.15±	1.52**	11.1±	3.3**	32.8±	8.7**	64.4±	4.4**	21.3±	1.5**	33.1±	2.7	120±	121**

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0845
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %		PROTHROMBIN TIME s e c		APTT s e c	
Control	10	1.8±	0.3	12.0±	0.2	13.8±	0.8
100ppm	10	1.6±	0.1	11.8±	0.3	13.7±	0.4
300ppm	10	1.8±	0.2	11.9±	0.3	13.4±	0.7
1000ppm	10	2.3±	0.3**	12.0±	0.3	13.2±	0.5
2000ppm	10	3.3±	1.0**	12.0±	0.4	12.1±	1.1**
3000ppm	9	11.6±	8.8**	12.3±	0.5	11.8±	1.2**

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

Test of Dunnett

(HCL070)

BAIS5

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 6

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential NEUTRO		WBC (%) LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	10	3.53±	1.15	24.7±	4.6	71.2±	4.2	2.0±	0.4	1.5±	0.4	0.2±	0.1	0.5±	0.3
100ppm	10	3.73±	0.77	27.2±	5.2	68.6±	5.2	2.1±	0.4	1.5±	0.4	0.1±	0.1	0.6±	0.2
300ppm	10	3.08±	1.02	25.2±	4.7	70.7±	4.3	2.1±	0.3	1.3±	0.2	0.2±	0.1	0.6±	0.2
1000ppm	10	1.80±	0.29**	17.3±	3.5*	78.9±	3.9*	1.9±	0.4	1.0±	0.3*	0.2±	0.1	0.7±	0.2
2000ppm	10	0.92±	0.24**	21.4±	7.3	74.1±	8.7	2.0±	0.7	1.5±	1.0	0.2±	0.1	0.9±	0.5
3000ppm	9	0.44±	0.17**	23.9±	10.1	72.2±	10.8	1.5±	1.1	0.9±	0.6	0.5±	0.4	1.0±	0.9

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01

Test of Dunnett

TABLE I 1

BIOCHEMISTRY : MALE

STUDY NO. : 0845

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (14W)

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	10	6.3±	0.2	3.4±	0.1	1.2±	0.1	0.05±	0.01	177±	15	71±	7	77±	32
100ppm	10	6.4±	0.1	3.5±	0.1	1.2±	0.0	0.05±	0.01	173±	10	74±	4	61±	17
300ppm	10	6.3±	0.1	3.4±	0.1	1.2±	0.0	0.04±	0.01	179±	11	76±	4	70±	31
1000ppm	10	6.3±	0.1	3.5±	0.0	1.2±	0.0	0.05±	0.00	174±	8	81±	6	45±	14**
2000ppm	10	5.9±	0.1**	3.3±	0.0**	1.3±	0.0**	0.05±	0.01	160±	12**	76±	8	23±	7**
3000ppm	6	5.8±	0.3**	2.9±	0.6**	1.1±	0.5	0.08±	0.03**	147±	16**	70±	21	27±	9**

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

Test of Dunnett

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 2

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	10	127±	13	174±	64	89±	23	180±	68	397±	52	0.6±	0.1	95±	14
100ppm	10	127±	5	133±	28	67±	12	140±	38	369±	42	0.7±	0.1	98±	20
300pm	10	130±	8	175±	55	81±	24	200±	70	377±	23	0.7±	0.2	99±	19
1000ppm	10	135±	8	152±	49	70±	21	156±	41	331±	30**	0.8±	0.2	92±	17
2000ppm	10	124±	11	111±	23*	48±	9**	123±	27	296±	26**	1.1±	0.4**	77±	11
3000ppm	6	123±	20	157±	162	101±	135**	111±	51*	229±	65**	2.1±	2.0**	81±	28

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

Test of Dunnett

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 3

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	10	17.2±	1.5	0.33±	0.03	144±	1	3.6±	0.3	105±	1	10.2±	0.2	5.4±	0.7
100ppm	10	17.8±	1.2	0.34±	0.03	144±	1	3.6±	0.4	105±	1	10.3±	0.2	5.4±	0.7
300ppm	10	18.2±	1.9	0.33±	0.03	144±	1	3.6±	0.3	107±	1**	10.2±	0.2	5.2±	0.7
1000ppm	10	18.3±	1.4	0.33±	0.03	144±	2	3.9±	0.3	107±	2**	10.4±	0.2	5.5±	0.8
2000ppm	10	15.3±	1.7	0.28±	0.02**	144±	1	4.5±	0.4**	109±	2**	10.0±	0.2	5.8±	0.6
3000ppm	6	25.3±	18.6	0.31±	0.14*	143±	2	4.5±	0.5**	108±	2**	9.9±	0.2	6.1±	1.5

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

Test of Dunnett

TABLE I 2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

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	10	6.2±	0.1	3.4±	0.1	1.2±	0.0	0.04±	0.01	139±	15	87±	4	16±	4
100ppm	10	6.1±	0.1	3.4±	0.1	1.2±	0.1	0.05±	0.01	146±	12	81±	5	17±	3
300ppm	10	6.3±	0.1	3.4±	0.1	1.2±	0.1	0.05±	0.01	145±	15	84±	8	18±	3
1000ppm	10	6.1±	0.2	3.3±	0.1	1.2±	0.1	0.04±	0.01	147±	12	83±	6	19±	4
2000ppm	10	5.7±	0.2**	3.2±	0.1**	1.3±	0.1	0.05±	0.01**	143±	9	87±	11	21±	5
3000ppm	9	5.5±	0.2**	3.1±	0.1**	1.3±	0.2	0.10±	0.05**	155±	11	82±	11	21±	8

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

Test of Dunnett

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (14W)

REPORT TYPE : A1

PAGE : 5

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	10	156±	7	74±	8	37±	5	100±	40	308±	23	1.1±	0.2	106±	22
100ppm	10	148±	9	76±	7	37±	6	92±	35	317±	26	1.2±	0.2	99±	18
300ppm	10	153±	10	72±	8	33±	7	90±	31	306±	30	1.3±	0.2	100±	19
1000ppm	10	151±	11	68±	14	30±	10*	87±	36	282±	30	1.2±	0.1	96±	21
2000ppm	10	147±	15	71±	16	29±	8*	86±	35	284±	49	2.1±	0.4**	78±	11**
3000ppm	9	142±	6	124±	113	96±	180	118±	39	277±	36	2.9±	0.7**	75±	15**

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

Test of Dunnett

STUDY NO. : 0845

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (14W)

PAGE : 6

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	10	19.7±	1.4	0.32±	0.02	144±	1	3.7±	0.3	107±	1	10.0±	0.2	5.2±	0.9
100ppm	10	19.7±	1.0	0.34±	0.02	144±	2	3.6±	0.2	107±	1	10.1±	0.1	5.2±	0.9
300ppm	10	19.1±	1.6	0.34±	0.02	144±	1	3.6±	0.3	107±	1	10.3±	0.2**	5.3±	0.7
1000ppm	10	19.1±	1.7	0.32±	0.02	143±	1	3.9±	0.3	109±	1**	10.2±	0.2	5.4±	0.7
2000ppm	10	16.5±	2.2**	0.28±	0.02**	143±	1	4.3±	0.3**	111±	1**	9.9±	0.1	5.3±	0.7
3000ppm	9	29.0±	23.2	0.26±	0.02**	143±	4*	4.5±	0.2**	111±	3**	9.8±	0.2	5.7±	0.6

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

Test of Dunnett

(HCL074)

BAIS 5

TABLE J1

GROSS FINDINGS : MALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		100ppm		300pm		1000ppm	
			10	(%)	10	(%)	10	(%)	10	(%)
thymus	atrophic		0	(0)	0	(0)	0	(0)	3	(30)
spleen	enlarged		0	(0)	0	(0)	0	(0)	0	(0)
salivary gl	red zone		0	(0)	0	(0)	0	(0)	0	(0)
kidney	white zone		0	(0)	0	(0)	0	(0)	0	(0)
urin bladd	urine:marked retention		0	(0)	0	(0)	0	(0)	0	(0)
testis	small		0	(0)	0	(0)	0	(0)	0	(0)
	red zone		0	(0)	0	(0)	0	(0)	0	(0)
whole body	anemic		0	(0)	0	(0)	0	(0)	0	(0)

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	2000ppm		3000ppm	
			10	(%)	10	(%)
thymus	atrophic		8	(80)	10	(100)
spleen	enlarged		0	(0)	2	(20)
salivary gl	red zone		0	(0)	1	(10)
kidney	white zone		0	(0)	1	(10)
urin bladd	urine:marked retention		0	(0)	1	(10)
testis	small		0	(0)	1	(10)
	red zone		0	(0)	1	(10)
whole body	anemic		0	(0)	2	(20)

TABLE J2

GROSS FINDINGS : FEMALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		100ppm		300pm		1000ppm	
			10	(%)	10	(%)	10	(%)	10	(%)
lymph node	enlarged		0	(0)	0	(0)	0	(0)	0	(0)
thymus	atrophic		0	(0)	0	(0)	0	(0)	5	(50)
spleen	enlarged		0	(0)	0	(0)	0	(0)	0	(0)
	nodule		0	(0)	0	(0)	0	(0)	0	(0)
heart	white zone		0	(0)	0	(0)	0	(0)	0	(0)
stomach	forestomach:thick		0	(0)	0	(0)	0	(0)	0	(0)
liver	herniation		1	(10)	0	(0)	0	(0)	1	(10)
kidney	nodule		0	(0)	0	(0)	0	(0)	0	(0)
whole body	anemic		0	(0)	0	(0)	0	(0)	0	(0)

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	2000ppm		3000ppm	
			10	(%)	10	(%)
lymph node	enlarged		0	(0)	1	(10)
thymus	atrophic		9	(90)	9	(90)
spleen	enlarged		0	(0)	2	(20)
	nodule		0	(0)	1	(10)
heart	white zone		0	(0)	1	(10)
stomach	forestomach:thick		0	(0)	1	(10)
liver	herniation		1	(10)	1	(10)
kidney	nodule		0	(0)	1	(10)
whole body	anemic		0	(0)	1	(10)

TABLE K1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 1

Group Name	NO. of Animals	Body Weight		THYMUS		ADRENALS		TESTES		HEART		LUNGS	
Control	10	277±	17	0.204±	0.019	0.060±	0.003	3.153±	0.116	0.849±	0.044	0.904±	0.052
100ppm	10	286±	12	0.203±	0.012	0.061±	0.007	3.034±	0.149	0.905±	0.050	0.958±	0.065
300ppm	10	275±	13	0.197±	0.014	0.061±	0.011	1.566±	0.123**	0.873±	0.051	0.903±	0.055
1000ppm	10	252±	12**	0.122±	0.023**	0.052±	0.005*	1.009±	0.112**	0.815±	0.061	0.888±	0.033
2000ppm	10	194±	7**	0.070±	0.020**	0.046±	0.005**	1.102±	0.196**	0.697±	0.054**	0.797±	0.037**
3000ppm	6	158±	20**	0.073±	0.021**	0.050±	0.011**	1.153±	0.247**	0.683±	0.052**	0.777±	0.064**

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

Test of Dunnett

STUDY NO. : 0845
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 2

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN		EPIDIDYM	
Control	10	1.605±	0.077	0.542±	0.031	6.765±	0.392	1.879±	0.035	0.906±	0.035
100ppm	10	1.657±	0.101	0.578±	0.034	6.950±	0.363	1.906±	0.052	0.903±	0.050
300pm	10	1.619±	0.103	0.542±	0.034	6.781±	0.463	1.889±	0.034	0.663±	0.032**
1000ppm	10	1.564±	0.085	0.480±	0.022*	6.360±	0.336	1.829±	0.040*	0.447±	0.033**
2000ppm	10	1.342±	0.064**	0.479±	0.065	4.947±	0.185**	1.704±	0.039**	0.372±	0.027**
3000ppm	6	1.344±	0.140**	0.635±	0.320	4.992±	1.224**	1.652±	0.043**	0.279±	0.044**

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

Test of Dunnett

TABLE K2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCrI CrIj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 3

Group Name	NO. of Animals	Body Weight		THYMUS		ADRENALS		OVARIES		HEART		LUNGS	
Control	10	160±	5	0.176±	0.007	0.060±	0.005	0.085±	0.009	0.591±	0.027	0.668±	0.030
100ppm	10	159±	8	0.173±	0.026	0.062±	0.008	0.087±	0.008	0.595±	0.046	0.653±	0.050
300pm	10	162±	8	0.174±	0.023	0.063±	0.005	0.096±	0.012*	0.620±	0.031	0.679±	0.022
1000ppm	10	144±	6**	0.101±	0.023**	0.056±	0.005	0.082±	0.007	0.560±	0.021	0.642±	0.044
2000ppm	10	124±	6**	0.085±	0.016**	0.045±	0.005**	0.056±	0.009**	0.500±	0.020**	0.595±	0.021**
3000ppm	9	109±	10**	0.072±	0.029**	0.043±	0.005**	0.041±	0.009**	0.534±	0.086**	0.590±	0.034**

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

Test of Dunnett

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 4

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	10	1.041±	0.033	0.360±	0.012	3.757±	0.154	1.747±	0.039
100ppm	10	1.041±	0.046	0.355±	0.032	3.652±	0.220	1.731±	0.033
300ppm	10	1.073±	0.037	0.376±	0.017	3.849±	0.159	1.736±	0.023
1000ppm	10	1.032±	0.034	0.349±	0.016	3.549±	0.145*	1.668±	0.028**
2000ppm	10	0.951±	0.031**	0.323±	0.041	3.131±	0.163**	1.593±	0.031**
3000ppm	9	0.990±	0.080*	0.452±	0.111	3.018±	0.153**	1.555±	0.037**

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

Test of Dunnett

TABLE L1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	10	277± 17	0.074± 0.004	0.022± 0.002	1.141± 0.065	0.307± 0.012	0.327± 0.022
100ppm	10	286± 12	0.071± 0.004	0.021± 0.002	1.062± 0.032*	0.317± 0.012	0.335± 0.018
300ppm	10	275± 13	0.072± 0.005	0.022± 0.004	0.570± 0.053**	0.317± 0.012	0.328± 0.016
1000ppm	10	252± 12**	0.048± 0.008**	0.021± 0.002	0.402± 0.051**	0.324± 0.017*	0.353± 0.014**
2000ppm	10	194± 7**	0.036± 0.010**	0.023± 0.003	0.569± 0.105**	0.359± 0.020**	0.411± 0.013**
3000ppm	6	158± 20**	0.047± 0.013**	0.033± 0.010*	0.724± 0.077**	0.441± 0.088**	0.498± 0.066**

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

Test of Dunnett

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 2

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN	EPIDIDYM
Control	10	0.580± 0.023	0.196± 0.009	2.444± 0.076	0.681± 0.040	0.328± 0.018
100ppm	10	0.580± 0.020	0.202± 0.007	2.433± 0.080	0.668± 0.016	0.316± 0.013
300pm	10	0.588± 0.023	0.197± 0.010	2.461± 0.087	0.687± 0.033	0.241± 0.018**
1000ppm	10	0.621± 0.021**	0.191± 0.005	2.527± 0.088	0.727± 0.028**	0.178± 0.013**
2000ppm	10	0.692± 0.018**	0.248± 0.037**	2.552± 0.074*	0.879± 0.022**	0.192± 0.010**
3000ppm	6	0.867± 0.174**	0.423± 0.251**	3.247± 1.080**	1.062± 0.145**	0.177± 0.019**

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

Test of Dunnett

TABLE L2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)		THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	10	160±	5	0.110± 0.003	0.038± 0.003	0.053± 0.006	0.371± 0.020	0.418± 0.013
100ppm	10	159±	8	0.109± 0.015	0.039± 0.004	0.055± 0.006	0.375± 0.020	0.412± 0.021
300ppm	10	162±	8	0.108± 0.013	0.039± 0.003	0.060± 0.008	0.383± 0.021	0.420± 0.018
1000ppm	10	144±	6**	0.070± 0.015**	0.039± 0.003	0.057± 0.005	0.389± 0.016	0.446± 0.019**
2000ppm	10	124±	6**	0.068± 0.011**	0.037± 0.003	0.046± 0.008*	0.405± 0.015**	0.481± 0.021**
3000ppm	9	109±	10**	0.065± 0.025**	0.039± 0.006	0.038± 0.007**	0.501± 0.143**	0.545± 0.050**

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

Test of Dunnett

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (14W)

PAGE : 4

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	10	0.653± 0.023	0.226± 0.007	2.354± 0.054	1.096± 0.038
100ppm	10	0.657± 0.024	0.223± 0.014	2.302± 0.072	1.093± 0.046
300pm	10	0.663± 0.025	0.232± 0.013	2.378± 0.094	1.074± 0.054
1000ppm	10	0.717± 0.017**	0.242± 0.013**	2.465± 0.056**	1.160± 0.041**
2000ppm	10	0.769± 0.023**	0.260± 0.028**	2.529± 0.080**	1.288± 0.049**
3000ppm	9	0.921± 0.164**	0.419± 0.108**	2.787± 0.193**	1.439± 0.130**

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

Test of Dunnett

TABLE M1

**HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE**

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study				Control				100ppm				300ppm				1000ppm			
		Grade				10				10				10				10			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
nasal cavit		<10>				<10>				<10>				<10>				<10>			
	mineralization	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)	(10)	(0)	(0)	(0)
	respiratory metaplasia:gland	4	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0	5	0	0	0
		(40)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
	vacuolic change: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)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung		<10>				<10>				<10>				<10>				<10>			
	edema	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	osseous metaplasia	0	0	0	0	1	0	0	0	0	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)
	accumulation of foamy cells	2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	3	0	0	0
		(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
	bronchiolar-alveolar 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)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Hematopoietic system}																					
bone marrow		<10>				<10>				<10>				<10>				<10>			
	granulation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	2000ppm				3000ppm			
			1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavity	mineralization		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland		6 (60)	0 (0)	0 (0)	0 (0)	7 (70)	0 (0)	0 (0)	0 (0)
	vacuolic change:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	4 (40)	0 (0)	0 (0)	0 (0)
			<10>				<10>			
lung	edema		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	osseous metaplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	accumulation of foamy cells		6 (60)	0 (0)	0 (0)	0 (0)	5 (50)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
{Hematopoietic system}										
bone marrow	granulation		5 (50)	2 (20)	0 (0)	0 ** (0)	3 (30)	0 (0)	0 (0)	0 (0)
			<10>				<10>			

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. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control				100ppm				300ppm				1000ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
bone marrow	decreased hematopoiesis		<10>				<10>				<10>				<10>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
lymph node	inflammation		<10>				<10>				<10>				<10>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
thymus	atrophy		<10>				<10>				<10>				<10>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 ** (0)
spleen	deposit of hemosiderin		<10>				<10>				<10>				<10>			
			10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	9 (90)	0 (0)	0 (0)	0 (0)	9 (90)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 ** (0)
	lymphoid depletion		0 (0)	0 (0)	0 (0)	0 (0)	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. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 4

Organ_____	Findings_____	Group Name	2000ppm				3000ppm				
		No. of Animals on Study	10				10				
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
{Hematopoietic system}											
bone marrow	decreased hematopoiesis		<10>				<10>				
		8 (80)	0 (0)	0 (0)	0 ** (0)	2 (20)	3 (30)	5 (50)	0 ** (0)		
lymph node	inflammation		<10>				<10>				
		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)		
	granulation		<10>				<10>				
		0 (0)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)		
thymus	atrophy		<10>				<10>				
		4 (40)	4 (40)	2 (20)	0 ** (0)	1 (10)	4 (40)	5 (50)	0 ** (0)		
spleen	deposit of hemosiderin		<10>				<10>				
		10 (100)	0 (0)	0 (0)	0 (0)	9 (90)	1 (10)	0 (0)	0 (0)		
	extramedullary hematopoiesis		<10>				<10>				
		7 (70)	3 (30)	0 (0)	0 ** (0)	2 (20)	7 (70)	1 (10)	0 ** (0)		
	lymphoid depletion		<10>				<10>				
		8 (80)	0 (0)	0 (0)	0 ** (0)	2 (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
 Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 5

Organ_____	Findings_____	Group Name	Control				100ppm				300ppm				1000ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																		
heart	necrosis:focal		<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	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}																		
salivary gl	atrophy		<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	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
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	granulomatous 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)	(0)	(0)	(0)	(0)
stomach	hyperplasia:forestomach		<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	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	necrosis:central		<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	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. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 6

Organ_____	Findings_____	Group Name	2000ppm				3000ppm				
		No. of Animals on Study	10				10				
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
{Circulatory system}											
heart	necrosis:focal		<10>				<10>				
		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)		
{Digestive system}											
salivary gl	atrophy		<10>				<10>				
		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)		
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	
	granulomatous inflammation		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	
stomach	hyperplasia:forestomach		<10>				<10>				
		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)		
liver	necrosis:central		<10>				<10>				
		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	2 (20)	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. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade	Control				100ppm				300ppm				1000ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																		
liver			<10>				<10>				<10>				<10>			
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	degeneration: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)
	inflammatory cell nest		0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Urinary system]																		
kidney			<10>				<10>				<10>				<10>			
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic body		10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)
	hyaline cast		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 (10)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	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. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	2000ppm				3000ppm			
			1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}										
liver			<10>				<10>			
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
	degeneration:central		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	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)
{Urinary system}										
kidney			<10>				<10>			
	necrosis:focal		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)
	eosinophilic body		10 (100)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 ** (0)
	hyaline cast		3 (30)	0 (0)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)
	inflammatory infiltration		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. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study				Control				100ppm				300ppm				1000ppm			
		Grade				10				10				10				10			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																					
kidney	tubular necrosis	<10>				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	mineralization:papilla	<10>				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	degeneration:tubule	<10>				0	0	0	0	0	0	0	0	0	0	0	0	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:renal tubule	<10>				4	0	0	0	5	0	0	0	7	0	0	0	4	0	0	0
		(40)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(70)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
urin bladd	dilatation	<10>				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Endocrine system}																					
pituitary	Rathke pouch	<10>				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)	(10)	(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. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 10

Organ_____	Findings_____	Group Name	2000ppm				3000ppm			
		No. of Animals on Study	10				10			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Urinary system}										
kidney			<10>				<10>			
	tubular necrosis		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	1 (10)	0 (0)	0 (0)
	mineralization:papilla		1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	degeneration:tubule		0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)
	regeneration:renal tubule		1 (10)	0 (0)	0 (0)	0 (0)	5 (50)	3 (30)	0 (0)	0 (0)
urin bladd	dilatation		<10>				<10>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
{Endocrine system}										
pituitary	Rathke pouch		<10>				<10>			
			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. : 0845
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 11

Organ_____	Findings_____	Group Name	Control				100ppm				300ppm				1000ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
adrenal	hemorrhage		<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	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	edema		<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	10	0	0	0	0 **	10	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	interstitial 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)
	tubular atrophy		0	0	0	0	0	0	0	0	9	1	0	0 **	0	1	9	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(90)	(10)	(0)	(0)	(0)	(0)	(10)	(90)
epididymis	decreased:sperma		<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	10	0	0 **
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	debris of spermatic elements		0	0	0	0	9	0	0	0 **	10	0	0	0 **	1	9	0	0 **
			(0)	(0)	(0)	(0)	(90)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(10)	(90)	(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. : 0845
 ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 12

Organ_____	Findings_____	Group Name	2000ppm				3000ppm			
		No. of Animals on Study	10				10			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}										
adrenal			<10>				<10>			
	hemorrhage		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Reproductive system}										
testis			<10>				<10>			
	edema		10	0	0	0 **	6	0	0	0 *
			(100)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
	interstitial cell hyperplasia		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	tubular atrophy		0	0	10	0 **	0	0	10	0 **
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
epididymis			<10>				<10>			
	decreased:sperma		0	9	1	0 **	0	0	10	0 **
			(0)	(90)	(10)	(0)	(0)	(0)	(100)	(0)
	debris of spermatic elements		0	10	0	0 **	0	10	0	0 **
			(0)	(100)	(0)	(0)	(0)	(100)	(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. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade	Control				100ppm				300ppm				1000ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Nervous system}																		
brain	hemorrhage		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye	hyperplasia:cornea		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl	lymphocytic infiltration		<10>				<10>				<10>				<10>			
			0	1	0	0	1	0	0	0	2	0	0	0	1	0	0	0
			(0)	(10)	(0)	(0)	(10)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Musculoskeletal system}																		
bone	decrease:trabecular bone		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Body cavities}																		
peritoneum	inflammatory infiltration		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCrjCrj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study Grade	2000ppm				3000ppm			
			10				10			
			1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Nervous system}										
brain	hemorrhage		<10>				<10>			
			0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(30)	(0)	(0)	(0)
{Special sense organs/appendage}										
eye	hyperplasia:cornea		<10>				<10>			
			0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
Harder gl	lymphocytic infiltration		<10>				<10>			
			0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Musculoskeletal system}										
bone	decrease:trabecular bone		<10>				<10>			
			0	0	0	0	7	3	0	0 **
			(0)	(0)	(0)	(0)	(70)	(30)	(0)	(0)
{Body cavities}										
peritoneum	inflammatory infiltration		<10>				<10>			
			0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(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

TABLE M2

**HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE**

STUDY NO. : 0845
ANIMAL : RAT F344/DuCr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control				100ppm				300ppm				1000ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	respiratory metaplasia:olfactory epithelium		<10>				<10>				<10>				<10>			
			0	0	0	0	1	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)
	respiratory metaplasia:gland		4	0	0	0	2	0	0	0	3	0	0	0	5	0	0	0
			(40)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(30)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
	inflammtry infiltration:respiratory epithelium		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(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)
	vacuolic change: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)
lung	osseous metaplasia		<10>				<10>				<10>				<10>			
			1	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)
	accumulation of foamy cells		1	0	0	0	0	0	0	0	2	0	0	0	4	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
{Hematopoietic system}																		
bone marrow	hemorrhage		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	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. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	2000ppm				3000ppm			
			1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit										
	respiratory metaplasia:olfactory epithelium		<10>				<10>			
			0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	respiratory metaplasia:gland		9	0	0	0	9	0	0	0
			(90)	(0)	(0)	(0)	(90)	(0)	(0)	(0)
	inflammatory infiltration:respiratory epithelium		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:olfactory epithelium		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	vacuolic change:olfactory epithelium		3	0	0	0	5	0	0	0 *
			(30)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
lung										
	osseous metaplasia		<10>				<10>			
			0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	accumulation of foamy cells		6	0	0	0	2	0	0	0
			(60)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Hematopoietic system}										
bone marrow										
	hemorrhage		<10>				<10>			
			0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(10)	(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. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 17

Organ_____	Findings_____	Group Name	Control				100ppm				300ppm				1000ppm				
		No. of Animals on Study	10				10				10				10				
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Hematopoietic system}																			
bone marrow	granulation		<10>				<10>				<10>				<10>				
		1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	0 (0)	0 (0)	1 (10)	2 (20)	0 (0)	0 (0)	7 (70)	2 (20)	0 (0)	0 (0)	**	
	decreased hematopoiesis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)		
thymus	atrophy		<10>				<10>				<10>				<10>				
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	**	
spleen	deposit of hemosiderin		<10>				<10>				<10>				<10>				
		10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)	10 (100)	0 (0)	0 (0)	0 (0)		
		focal lymphoid 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)	
		extramedullary hematopoiesis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (80)	0 (0)	0 (0)	0 (0)	**
		lymphoid depletion		0 (0)	0 (0)	0 (0)	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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 18

Organ_____	Findings_____	Group Name	2000ppm				3000ppm			
		No. of Animals on Study	10				10			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}										
bone marrow			<10>				<10>			
	granulation		6 (60)	4 (40)	0 (0)	0 ** (0)	4 (40)	1 (10)	0 (0)	0 (0)
	decreased hematopoiesis		8 (80)	0 (0)	0 (0)	0 ** (0)	2 (20)	6 (60)	2 (20)	0 ** (0)
thymus			<10>				<10>			
	atrophy		3 (30)	7 (70)	0 (0)	0 ** (0)	0 (0)	8 (80)	2 (20)	0 ** (0)
spleen			<10>				<10>			
	deposit of hemosiderin		10 (100)	0 (0)	0 (0)	0 (0)	9 (90)	0 (0)	0 (0)	0 (0)
	focal lymphoid hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)
	extramedullary hematopoiesis		7 (70)	2 (20)	0 (0)	0 ** (0)	1 (10)	7 (70)	2 (20)	0 ** (0)
	lymphoid depletion		0 (0)	0 (0)	0 (0)	0 (0)	5 (50)	1 (10)	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. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study				Control				100ppm				300ppm				1000ppm			
		Grade				10				10				10				10			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																					
heart	necrosis:focal	<10>				<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
artery/aort	mineralization:pulmonary artery	<10>				<10>				<10>				<10>				<10>			
		1	0	0	0	0	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)	(0)	(0)	(0)	(0)
{Digestive system}																					
stomach	ulcer:forestomach	<10>				<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:forestomach	<10>				<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	herniation	<10>				<10>				<10>				<10>				<10>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	necrosis:central	<10>				<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 20

		Group Name	2000ppm				3000ppm			
		No. of Animals on Study	10				10			
Organ_____	Findings_____	Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Circulatory system}										
heart	necrosis:focal		<10>				<10>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)
artery/aort	mineralization:pulmonary artery		<10>				<10>			
			0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Digestive system}										
stomach	ulcer:forestomach		<10>				<10>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	hyperplasia:forestomach		<10>				<10>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	1 (10)	0 (0)
liver	herniation		<10>				<10>			
			1 (10)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	necrosis:central		<10>				<10>			
			0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	1 (10)	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. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study				Control				100ppm				300ppm				1000ppm			
		Grade				10				10				10				10			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																					
liver	inflammatory cell nest	<10>				<10>				<10>				<10>				<10>			
		0	0	0	0	1	0	0	0	0	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)
pancreas	atrophy	<10>				<10>				<10>				<10>				<10>			
		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)	(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																					
kidney	adhesion	<10>				<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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:focal	<10>				<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyaline cast	<10>				<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	tubular necrosis	<10>				<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 22

Organ_____	Findings_____	Group Name	2000ppm				3000ppm			
		No. of Animals on Study	10				10			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}										
liver			<10>				<10>			
	inflammatory cell nest		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas			<10>				<10>			
	atrophy		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}										
kidney			<10>				<10>			
	adhesion		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	necrosis:focal		0	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)
	hyaline cast		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	tubular necrosis		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(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. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 23

Organ	Findings	Group Name No. of Animals on Study				Control 10				100ppm 10				300ppm 10				1000ppm 10			
		Grade																			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																					
kidney		<10>				<10>				<10>				<10>				<10>			
	papillary 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)	0 (0)	0 (0)	0 (0)	0 (0)
	mineralization:cortico-medullary junction	4 (40)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)
	degeneration:tubule	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	urothelial hyperplasia:pelvis	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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:renal tubule	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Endocrine system}																					
pituitary		<10>				<10>				<10>				<10>				<10>			
	Rathke pouch	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (10)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
thyroid		<10>				<10>				<10>				<10>				<10>			
	ultimobranchial body remanet	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	0 (0)	0 (0)	0 (0)	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 ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 24

		Group Name	2000ppm				3000ppm			
		No. of Animals on Study	10				10			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}										
kidney			<10>				<10>			
	papillary necrosis		0	0	0	0	0	0	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(10)	(0)
	mineralization:cortico-medullary junction		0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	degeneration:tubule		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
	urothelial hyperplasia:pelvis		0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)
	regeneration:renal tubule		0	0	0	0	7	0	0	0 **
			(0)	(0)	(0)	(0)	(70)	(0)	(0)	(0)
{Endocrine system}										
pituitary			<10>				<10>			
	Rathke pouch		1	0	0	0	0	0	0	0
			(10)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
thyroid			<10>				<10>			
	ultimobranchial body remanet		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. : 0845
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 14W)

PAGE : 25

Organ_____	Findings_____	Group Name	Control				100ppm				300ppm				1000ppm			
		No. of Animals on Study	10				10				10				10			
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}																		
adrenal	hemorrhage		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cortical vacuolation:diffuse		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	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	atrophy		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye	hyperplasia:cornea		<10>				<10>				<10>				<10>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Harder gl	lymphocytic infiltration		<10>				<10>				<10>				<10>			
			1	0	0	0	2	1	0	0	2	0	0	0	1	0	0	0
			(10)	(0)	(0)	(0)	(20)	(10)	(0)	(0)	(20)	(0)	(0)	(0)	(10)	(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. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 26

		Group Name	2000ppm				3000ppm			
		No. of Animals on Study	10				10			
Organ_____	Findings_____	Grade	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Endocrine system}										
adrenal			<10>				<10>			
	hemorrhage		0	0	0	0	0	1	0	0
			(0)	(0)	(0)	(0)	(0)	(10)	(0)	(0)
	cortical vacuolation:diffuse		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
{Reproductive system}										
ovary			<10>				<10>			
	atrophy		0	0	0	0	9	1	0	0 **
			(0)	(0)	(0)	(0)	(90)	(10)	(0)	(0)
{Special sense organs/appendage}										
eye			<10>				<10>			
	hyperplasia:cornea		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)
Harder gl			<10>				<10>			
	lymphocytic infiltration		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. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 27

Organ	Findings	Group Name				Control				100ppm				300ppm				1000ppm			
		No. of Animals on Study				10				10				10				10			
		Grade				1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

nasolacr d	squamous cell hyperplasia	<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

{Musculoskeletal system}

bone	decrease:trabecular bone	<10>				<10>				<10>				<10>			
		0	0	0	0	0	0	0	0	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

(HPT150)

BAIS5

STUDY NO. : 0845
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 14W)

PAGE : 28

Organ	Findings	Group Name No. of Animals on Study Grade	2000ppm				3000ppm			
			10				10			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)

{Special sense organs/appendage}

nasolacr d			<10>				<10>			
squamous cell hyperplasia			2	0	0	0	5	0	0	0 *
			(20)	(0)	(0)	(0)	(50)	(0)	(0)	(0)

{Musculoskeletal system}

bone			<10>				<10>			
decrease:trabecular bone			10	0	0	0 **	6	4	0	0 **
			(100)	(0)	(0)	(0)	(60)	(40)	(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)

BAIS5