メチルアミンのラットを用いた
吸入による2週間毒性試験報告書

試験番号：0681

TABLES

TABLES

TABLES (CONTINUED)

TABLE A

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

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

Group Name	Concentration(ppm) Mean ± S.D.
Control	0.0 ± 0.0
28 ppm	28.5 ± 1.0
83 ppm	83.2 ± 1.2
250 ppm	253.2 ± 5.0
500 ppm	496.7 ± 9.8
750 ppm	748.9 ± 9.1

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Days) 0-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	2-1	2-2	2-3	2-4	2-5	2-6
Control	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
28ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
83ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
250ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	4/ 5	4/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	80.0	80.0
750ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Days) 2-7	3-1
Control	5	5/ 5 100.0	5/ 5 100.0
28ppm	5	5/ 5 100.0	5/ 5 100.0
83ppm	5	5/ 5 100.0	5/ 5 100.0
250ppm	5	5/ 5 100.0	5/ 5 100.0
500ppm	5	3/ 5 60.0	3/ 5 60.0
750ppm	5	5/ 5 100.0	3/ 5 60.0

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

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Days) 0-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	2-1	2-2	2-3	2-4	2-5	2-6
Control	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
28ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
83ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
250ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
750ppm	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Days) 2-7	3-1
Control	5	5/ 5 100.0	5/ 5 100.0
28ppm	5	5/ 5 100.0	5/ 5 100.0
83ppm	5	5/ 5 100.0	5/ 5 100.0
250ppm	5	5/ 5 100.0	5/ 5 100.0
500ppm	5	4/ 5 80.0	4/ 5 80.0
750ppm	5	4/ 5 80.0	4/ 5 80.0

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

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day 1-1 2	1-2 1	1-4 1	1-4 2	1-5 2	1-6 2	1-7 1	1-7 2	2-3 1	2-5 2	2-7 1	2-7 2	3-1 1
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	28ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	83ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	250ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	1	1	2	2
	750ppm	0	0	0	0	0	0	0	0	0	0	0	0	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	-	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	500ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	750ppm	0	0	0	0	0	0	0	1	0	0	0	-	-
PREENING	Control	0	0	0	0	0	0	0	0	0	0	0	-	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	500ppm	0	0	0	0	0	0	0	3	0	0	0	-	-
	750ppm	0	0	0	0	0	0	0	3	0	0	0	-	-
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	-	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	250ppm	2	0	0	0	0	0	0	1	0	0	0	-	-
	500ppm	5	0	0	0	0	0	0	3	0	0	0	-	-
	750ppm	5	0	0	0	0	0	0	3	0	1	1	-	-
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	-	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	500ppm	0	0	0	0	0	0	0	0	0	0	2	-	-
	750ppm	0	0	0	0	2	5	4	5	5	5	5	-	-
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	-	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	500ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	750ppm	0	0	0	0	0	1	1	2	0	0	0	-	-

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day 1-1 2	1-2 1	1-4 1	1-4 2	1-5 2	1-6 2	1-7 1	1-7 2	2-3 1	2-5 2	2-7 1	2-7 2	3-1 1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	-	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	500ppm	0	0	0	0	0	2	3	3	4	3	4	-	-
	750ppm	0	0	0	1	2	2	2	2	5	5	5	-	-
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	-	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	250ppm	5	0	0	0	0	0	0	0	0	0	0	-	-
	500ppm	5	0	0	0	0	0	0	0	0	3	4	-	-
	750ppm	5	1	0	4	4	4	1	4	3	5	5	-	-
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	-	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	250ppm	2	0	0	3	4	4	1	1	3	5	4	-	-
	500ppm	5	4	0	2	4	4	5	5	5	4	4	-	-
	750ppm	5	2	0	5	5	5	5	5	5	5	5	-	-
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	-	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	500ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	750ppm	0	0	0	0	0	0	0	1	0	0	0	-	-
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	-	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	500ppm	0	0	0	0	0	0	0	0	0	0	0	-	-
	750ppm	0	0	0	0	0	0	0	1	0	0	0	-	-

TABLE C2

CLINICAL OBSERVATION : FEMALE

Clinical sign	Group Name	Administration Week-day 1-1 2	1-2 1	1-4 1	1-4 2	1-5 2	1-6 2	1-7 1	1-7 2	2-3 1	2-5 2	2-7 1	2-7 2
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0
	28ppm	0	0	0	0	0	0	0	0	0	0	0	0
	83ppm	0	0	0	0	0	0	0	0	0	0	0	0
	250ppm	0	0	0	0	0	0	0	0	0	0	0	0
	500ppm	0	0	0	0	0	0	0	0	0	0	1	1
	750ppm	0	0	0	0	0	0	0	0	0	0	0	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-
	500ppm	0	0	0	0	0	0	0	0	0	0	0	-
	750ppm	0	0	0	0	0	0	0	1	0	0	0	-
PREENING	Control	0	0	0	0	0	0	0	0	0	0	0	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-
	500ppm	0	0	0	0	0	0	0	3	0	0	0	-
	750ppm	0	0	0	0	0	0	0	2	0	0	0	-
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-
	250ppm	2	0	0	1	1	0	0	0	0	0	0	-
	500ppm	5	0	0	0	0	0	0	4	0	0	0	-
	750ppm	5	0	0	0	0	0	0	2	0	0	0	-
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-
	500ppm	0	0	0	0	0	0	0	0	0	0	0	-
	750ppm	0	0	0	0	3	5	4	4	2	3	5	-
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-
	250ppm	0	0	0	0	0	0	1	1	1	1	2	-
	500ppm	0	0	0	1	1	3	3	3	4	5	4	-
	750ppm	0	0	1	1	3	4	4	4	5	5	5	-

Clinical sign	Group Name	Administration Week-day 1-1 2	1-2 1	1-4 1	1-4 2	1-5 2	1-6 2	1-7 1	1-7 2	2-3 1	2-5 2	2-7 1	2-7 2
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-
	250ppm	5	0	0	0	0	0	0	0	0	0	0	-
	500ppm	5	0	0	0	0	0	0	3	0	4	3	-
	750ppm	5	1	0	5	5	5	2	3	3	5	5	-
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-
	250ppm	3	1	0	2	2	1	2	2	1	4	5	-
	500ppm	5	5	0	4	5	5	5	5	5	5	4	-
	750ppm	5	5	0	5	5	5	5	5	5	5	5	-
SUBNORMAL TEMP	Control	0	0	0	0	0	0	0	0	0	0	0	-
	28ppm	0	0	0	0	0	0	0	0	0	0	0	-
	83ppm	0	0	0	0	0	0	0	0	0	0	0	-
	250ppm	0	0	0	0	0	0	0	0	0	0	0	-
	500ppm	0	0	0	0	0	0	0	0	0	0	0	-
	750ppm	0	0	0	0	0	0	0	1	0	0	0	-

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av. Wt.	Control No. of Surviv. <5>	28ppm Av. Wt.	28ppm % of cont. <5>	28ppm No. of Surviv.	83ppm Av. Wt.	83ppm % of cont. <5>	83ppm No. of Surviv.	250ppm Av. Wt.	250ppm % of cont. <5>	250ppm No. of Surviv.	500ppm Av. Wt.	500ppm % of cont. <5>	500ppm No. of Surviv.	750ppm Av. Wt.	750ppm % of cont. <5>	750ppm No. of Surviv.
0-0	125 (5)	5/ 5	125 (5)	100	5/ 5	125 (5)	100	5/ 5	125 (5)	100	5/ 5	124 (5)	99	5/ 5	125 (5)	100	5/ 5
1-2	130 (5)	5/ 5	129 (5)	99	5/ 5	125 (5)	96	5/ 5	121 (5)	93	5/ 5	114 (5)	88	5/ 5	109 (5)	84	5/ 5
1-4	136 (5)	5/ 5	135 (5)	99	5/ 5	133 (5)	98	5/ 5	124 (5)	91	5/ 5	117 (5)	86	5/ 5	105 (5)	77	5/ 5
1-7	145 (5)	5/ 5	143 (5)	99	5/ 5	135 (5)	93	5/ 5	118 (5)	81	5/ 5	112 (5)	77	5/ 5	100 (5)	69	5/ 5
2-3	157 (5)	5/ 5	155 (5)	99	5/ 5	145 (5)	92	5/ 5	126 (5)	80	5/ 5	116 (5)	74	5/ 5	101 (5)	64	5/ 5
2-7	173 (5)	5/ 5	172 (5)	99	5/ 5	157 (5)	91	5/ 5	135 (5)	78	5/ 5	108 (3)	62	3/ 5	95 (5)	55	5/ 5

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

TABLE D2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av. Wt.	Control No. of Surviv. < 5>	28ppm Av. Wt.	28ppm % of cont. < 5>	28ppm No. of Surviv.	83ppm Av. Wt.	83ppm % of cont. < 5>	83ppm No. of Surviv.	250ppm Av. Wt.	250ppm % of cont. < 5>	250ppm No. of Surviv.	500ppm Av. Wt.	500ppm % of cont. < 5>	500ppm No. of Surviv.	750ppm Av. Wt.	750ppm % of cont. < 5>	750ppm No. of Surviv.
0-0	99 (5)	5/ 5	100 (5)	101	5/ 5	100 (5)	101	5/ 5	99 (5)	100	5/ 5	100 (5)	101	5/ 5	99 (5)	100	5/ 5
1-2	101 (5)	5/ 5	103 (5)	102	5/ 5	102 (5)	101	5/ 5	96 (5)	95	5/ 5	91 (5)	90	5/ 5	87 (5)	86	5/ 5
1-4	104 (5)	5/ 5	106 (5)	102	5/ 5	106 (5)	102	5/ 5	99 (5)	95	5/ 5	89 (5)	86	5/ 5	84 (5)	81	5/ 5
1-7	108 (5)	5/ 5	109 (5)	101	5/ 5	107 (5)	99	5/ 5	95 (5)	88	5/ 5	88 (5)	81	5/ 5	83 (5)	77	5/ 5
2-3	113 (5)	5/ 5	115 (5)	102	5/ 5	113 (5)	100	5/ 5	98 (5)	87	5/ 5	91 (5)	81	5/ 5	83 (5)	73	5/ 5
2-7	120 (5)	5/ 5	125 (5)	104	5/ 5	119 (5)	99	5/ 5	102 (5)	85	5/ 5	93 (4)	78	4/ 5	78 (4)	65	4/ 5

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

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-2	1-4	1-7	2-3	2-7
Control	125± 5	130± 7	136± 8	145± 12	157± 15	173± 19
28ppm	125± 5	129± 5	135± 7	143± 8	155± 9	172± 9
83ppm	125± 5	125± 5	133± 7	135± 8	145± 9	157± 8
250ppm	125± 5	121± 4*	124± 6*	118± 6**	126± 6**	135± 6**
500ppm	124± 6	114± 5**	117± 5**	112± 5**	116± 7**	108± 7**
750ppm	125± 5	109± 4**	105± 7**	100± 6**	101± 8**	95± 8**

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

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-2	1-4	1-7	2-3	2-7
Control	99± 2	101± 3	104± 3	108± 3	113± 4	120± 5
28ppm	100± 2	103± 2	106± 3	109± 4	115± 4	125± 4
83ppm	100± 2	102± 2	106± 3	107± 4	113± 3	119± 2
250ppm	99± 2	96± 3*	99± 5	95± 5**	98± 4**	102± 3**
500ppm	100± 2	91± 3**	89± 3**	88± 3**	91± 3**	93± 7**
750ppm	99± 3	87± 3**	84± 4**	83± 3**	83± 3**	78± 1**

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

TABLE E1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS · MALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av. FC.	Control No. of Surviv. <5>	28ppm Av. FC.	28ppm % of cont. <5>	28ppm No. of Surviv.	83ppm Av. FC.	83ppm % of cont. <5>	83ppm No. of Surviv.	250ppm Av. FC.	250ppm % of cont. <5>	250ppm No. of Surviv.	500ppm Av. FC.	500ppm % of cont. <5>	500ppm No. of Surviv.	750ppm Av. FC.	750ppm % of cont. <5>	750ppm No. of Surviv.
1-7	14.0 (5)	5/ 5	13.5 (5)	96	5/ 5	12.6 (5)	90	5/ 5	8.7 (5)	62	5/ 5	7.4 (5)	53	5/ 5	5.1 (5)	36	5/ 5
2-7	15.0 (5)	5/ 5	14.9 (5)	99	5/ 5	12.8 (5)	85	5/ 5	11.3 (5)	75	5/ 5	9.3 (3)	62	3/ 5	8.6 (5)	57	5/ 5

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

TABLE E2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av. FC.	Control No. of Surviv. <5>	28ppm Av. FC.	28ppm % of cont. <5>	28ppm No. of Surviv.	83ppm Av. FC.	83ppm % of cont. <5>	83ppm No. of Surviv.	250ppm Av. FC.	250ppm % of cont. <5>	250ppm No. of Surviv.	500ppm Av. FC.	500ppm % of cont. <5>	500ppm No. of Surviv.	750ppm Av. FC.	750ppm % of cont. <5>	750ppm No. of Surviv.
1-7	11.1 (5)	5/ 5	11.1 (5)	100	5/ 5	10.7 (5)	96	5/ 5	8.2 (5)	74	5/ 5	5.9 (5)	53	5/ 5	4.8 (5)	43	5/ 5
2-7	11.1 (5)	5/ 5	11.7 (5)	105	5/ 5	10.8 (5)	97	5/ 5	9.4 (5)	85	5/ 5	9.6 (4)	86	4/ 5	8.1 (4)	73	4/ 5

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

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration 1-7(6) week-day(effective)	2-7(7)
Control	14.0± 1.1	15.0± 1.8
28ppm	13.5± 1.1	14.9± 1.1
83ppm	12.6± 0.9	12.8± 0.7*
250ppm	8.7± 1.1**	11.3± 0.2**
500ppm	7.4± 0.7**	9.3± 0.7**
750ppm	5.1± 1.9**	8.6± 1.0**

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

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration 1-7(6) week-day(effective)	2-7(7) week-day(effective)
Control	11.1± 0.7	11.1± 0.7
28ppm	11.1± 0.5	11.7± 0.6
83ppm	10.7± 0.7	10.8± 0.4
250ppm	8.2± 0.6**	9.4± 0.8**
500ppm	5.9± 0.7**	9.6± 0.9*
750ppm	4.8± 0.4**	8.1± 0.5**

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

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	5	8.75± 0.46	16.3± 0.7	43.9± 1.7	50.1± 0.8	18.6± 0.2	37.1± 0.4	928± 108
28ppm	5	8.76± 0.31	16.2± 0.5	43.7± 1.2	49.9± 0.5	18.5± 0.2	37.0± 0.3	939± 31
83ppm	5	8.96± 0.15	16.5± 0.1	44.5± 0.5	49.7± 0.5	18.4± 0.2	37.0± 0.2	821± 47
250ppm	5	8.95± 0.38	16.4± 0.6	44.1± 1.9	49.3± 0.4	18.3± 0.2	37.2± 0.5	800± 81
500ppm	3	8.33± 0.22	15.5± 0.7	42.7± 0.7	51.3± 0.8	18.6± 0.6	36.3± 1.6	1093± 106*
750ppm	3	7.93± 0.81*	14.5± 1.6	39.6± 3.5*	50.0± 0.8	18.3± 0.2	36.6± 0.7	988± 118

Significant difference ; * : $P \leqq 0.05$ ** : $P \leqq 0.01$ Test of Dunnett

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RETICULOCYTE %
Control	5	2.8± 0.5
28ppm	5	2.9± 0.2
83ppm	5	2.1± 0.3
250ppm	5	2.3± 0.6
500ppm	3	7.0± 1.5*
750ppm	3	6.9± 4.0

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$	Differential WBC (%)
Control	5	5.53± 0.90	
28ppm	5	5.14± 0.85	
83ppm	5	5.21± 1.17	
250ppm	5	3.93± 1.34	
500ppm	3	3.63± 0.40	
750ppm	3	2.56± 1.43**	

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

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV f ℓ	MCH p g	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	5	9.13± 0.40	17.1± 0.6	45.2± 1.8	49.5± 0.5	18.7± 0.2	37.9± 0.2	808± 31
28ppm	5	8.94± 0.25	16.7± 0.5	44.2± 0.9	49.4± 0.4	18.6± 0.1	37.7± 0.5	811± 28
83ppm	5	9.02± 0.22	16.9± 0.4	44.7± 1.0	49.6± 0.3	18.8± 0.1	37.9± 0.3	798± 56
250ppm	5	8.81± 0.33	16.2± 0.7*	43.2± 1.8	49.0± 0.5	18.3± 0.3*	37.5± 0.3	843± 65
500ppm	4	7.86± 0.59**	14.4± 1.1**	39.7± 2.6**	50.5± 0.8	18.3± 0.2*	36.3± 0.4**	1060± 63**
750ppm	4	6.93± 1.25**	12.8± 2.1**	36.4± 5.3**	52.7± 3.9**	18.5± 0.4	35.2± 2.7**	1181± 528*

Significant difference ; * : $P \leqq 0.05$ ** : $P \leqq 0.01$ Test of Dunnett

Group Name	NO. of Animals	RETICULOCYTE %	
Control	5	1.5±	0.1
28ppm	5	2.0±	0.3*
83ppm	5	1.5±	0.3
250ppm	5	1.9±	0.7
500ppm	4	7.0±	2.4**
750ppm	4	10.7±	5.9**

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$	Differential WBC (%)
Control	5	3.79± 0.83	
28ppm	5	3.47± 1.07	
83ppm	5	3.11± 1.28	
250ppm	5	2.54± 0.63	
500ppm	4	2.82± 0.54	
750ppm	4	2.26± 1.22	

Significant difference ; * : $P \leqq 0.05$ ** : $P \leqq 0.01$ Test of Dunnett

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	TOTAL PROTEIN g／dℓ		ALBUMIN g／dℓ		A/G RATIO		T-BILIRUBIN mg／dℓ		GLUCOSE mg／dℓ		T-CHOLESTEROL mg／dℓ		TRIGLYCERIDE mg／dℓ	
Control	5	6.0±	0.2	3.6±	0.1	1.5±	0.1	0.10±	0.01	179±	19	51±	7	42±	12
28ppm	5	5.9±	0.1	3.5±	0.1	1.5±	0.1	0.11±	0.01	180±	3	45±	2	38±	11
83ppm	5	5.8±	0.2	3.6±	0.1	1.6±	0.1**	0.10±	0.00	193±	16	46±	2	34±	8
250ppm	5	5.5±	0.1**	3.1±	0.1	1.3±	0.1*	0.11±	0.00	171±	23	67±	5**	13±	4**
500ppm	3	5.4±	0.2**	2.7±	0.0	1.0±	0.1**	0.11±	0.01	111±	3*	84±	11**	17±	3**
750ppm	3	4.7±	0.4**	2.3±	0.3	1.0±	0.1**	0.11±	0.01	122±	12*	74±	19**	12±	11**

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	PHOSPHOLIPID mg/dℓ	AST IU/ℓ	ALT IU/ℓ	LDH IU/ℓ	ALP IU/ℓ	G-GTP IU/ℓ	CK IU/ℓ
Control	5	94± 9	67± 5	31± 1	103± 10	711± 38	1± 1	185± 12
28ppm	5	87± 5	70± 3	30± 2	130± 47	774± 43	1± 0	211± 45
83ppm	5	91± 5	70± 3	29± 1	142± 52	701± 21	1± 1	223± 43
250ppm	5	109± 5	73± 3*	29± 1	168± 38	470± 32**	1± 0	195± 27
500ppm	3	131± 16*	135± 29**	82± 20	155± 44	432± 43**	2± 1	215± 6
750ppm	3	109± 39	127± 40**	102± 37*	172± 59	473± 65**	2± 1	305± 145

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	UREA NITROGEN mg／dℓ	CREATININE mg／dℓ	SODIUM mEq／ℓ	POTASSIUM mEq／ℓ	CHLORIDE mEq／ℓ	CALCIUM mg／dℓ	INORGANIC PHOSPHORUS mg／dℓ
Control	5	17.3± 1.1	0.5± 0.0	143± 1	3.2± 0.1	104± 0	10.4± 0.4	7.7± 0.6
28ppm	5	17.4± 1.4	0.5± 0.0	143± 0	3.2± 0.2	103± 1	10.4± 0.3	7.8± 0.6
83ppm	5	18.2± 1.3	0.5± 0.1	143± 1	3.3± 0.1	103± 1	10.1± 0.3	7.3± 0.7
250ppm	5	19.0± 2.2	0.5± 0.1	141± 1	3.5± 0.1	103± 1	10.0± 0.4	7.0± 1.0
500ppm	3	29.8± 2.3**	0.5± 0.0	145± 3	3.6± 0.2*	102± 3	9.9± 0.2	8.1± 0.3
750ppm	3	47.3± 20.5**	0.5± 0.1	141± 1*	3.8± 0.2**	99± 3	9.0± 0.4**	8.7± 2.0

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

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	TOTAL PROTEIN g／dℓ	ALBUMIN g／dℓ	A/G RATIO	T-BILIRUBIN mg／dℓ	GLUCOSE mg／dℓ	T-CHOLESTEROL mg／dℓ	TRIGLYCERIDE mg／dℓ
Control	5	5.8± 0.2	3.5± 0.1	1.5± 0.1	0.10± 0.01	141± 9	63± 4	15± 2
28ppm	5	5.7± 0.2	3.4± 0.1	1.5± 0.1	0.11± 0.01	141± 3	62± 8	14± 4
83ppm	5	5.8± 0.2	3.5± 0.1	1.6± 0.1	0.11± 0.01	142± 11	59± 4	12± 2
250ppm	5	5.0± 0.1**	2.8± 0.1**	1.2± 0.1**	0.11± 0.01	132± 27	71± 9	12± 1
500ppm	4	5.1± 0.2**	2.5± 0.1**	1.0± 0.1**	0.11± 0.01	117± 17	82± 9	17± 2
750ppm	4	4.3± 0.8**	2.2± 0.4**	1.0± 0.1**	0.11± 0.01	121± 44	65± 19	14± 7

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	PHOSPHOLIPID mg／dℓ	AST IU／ℓ	ALT IU／ℓ	LDH IU／ℓ	ALP IU／ℓ	G-GTP IU／ℓ	CK IU／ℓ
Control	5	114± 6	69± 5	29± 3	208± 120	554± 30	1± 0	199± 62
28ppm	5	109± 10	62± 18	29± 3	194± 97	601± 33	2± 0*	191± 42
83ppm	5	104± 7	72± 4	30± 4	193± 86	596± 40	2± 1	217± 39
250ppm	5	123± 14	80± 6**	28± 2	208± 120	388± 28**	2± 0*	178± 42
500ppm	4	148± 15	89± 14**	40± 14	263± 86	440± 36*	1± 1	189± 49
750ppm	4	98± 35	185± 141**	131± 110*	380± 119	496± 107	3± 1**	553± 339

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	UREA NITROGEN mg/dl	CREATININE mg/dl	SODIUM mEq/l	POTASSIUM mEq/l	CHLORIDE mEq/l	CALCIUM mg/dl	INORGANIC PHOSPHORUS mg/dl
Control	5	18.5± 1.5	0.6± 0.1	142± 1	3.5± 0.2	105± 1	10.0± 0.2	6.9± 1.1
28ppm	5	17.8± 1.0	0.6± 0.1	142± 1	3.4± 0.2	105± 0	9.9± 0.3	7.3± 0.8
83ppm	5	19.1± 1.4	0.5± 0.1	141± 1	3.5± 0.2	104± 1	10.1± 0.2	7.0± 1.0
250ppm	5	19.6± 1.0	0.5± 0.0	141± 1	3.6± 0.3	105± 1	9.4± 0.2*	7.1± 0.8
500ppm	4	21.6± 3.7	0.5± 0.0	141± 1	4.1± 0.5*	100± 4**	9.9± 0.2	8.2± 1.0
750ppm	4	57.5± 20.9**	0.4± 0.1	141± 3	4.3± 0.3**	99± 4**	9.0± 0.7**	9.2± 0.1**

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

TABLE H1

GROSS FINDINGS : MALE

DEAD AND MORIBUND ANIMALS

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

Organ	Findings	Group Name / NO. of Animals	Control 0 (%)	28ppm 0 (%)	83ppm 0 (%)	250ppm 0 (%)
lung	red zone		- (-)	- (-)	- (-)	- (-)
thymus	atrophic		- (-)	- (-)	- (-)	- (-)
small intes	gas		- (-)	- (-)	- (-)	- (-)
large intes	gas		- (-)	- (-)	- (-)	- (-)
eye	turbid		- (-)	- (-)	- (-)	- (-)
	red		- (-)	- (-)	- (-)	- (-)

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

Organ	Findings	Group Name / NO. of Animals	500ppm 2	(%)	750ppm 2	(%)
lung	red zone		1	(50)	0	(0)
thymus	atrophic		0	(0)	2	(100)
small intes	gas		0	(0)	2	(100)
large intes	gas		0	(0)	2	(100)
eye	turbid		0	(0)	2	(100)
	red		1	(50)	0	(0)

TABLE H2

GROSS FINDINGS : MALE

SACRIFICED ANIMALS

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (3W)

Organ	Findings	Group Name / NO. of Animals	Control 5 (%)	28ppm 5 (%)	83ppm 5 (%)	250ppm 5 (%)
thymus	atrophic		0 (0)	0 (0)	0 (0)	0 (0)
small intes	gas		0 (0)	0 (0)	0 (0)	0 (0)
large intes	gas		0 (0)	0 (0)	0 (0)	0 (0)
liver	herniation		0 (0)	1 (20)	0 (0)	1 (20)
eye	turbid		0 (0)	0 (0)	0 (0)	0 (0)

Organ	Findings	Group Name	500ppm	750ppm
		NO. of Animals	3 (%)	3 (%)
thymus	atrophic		2 (67)	3 (100)
small intes	gas		1 (33)	2 (67)
large intes	gas		2 (67)	2 (67)
liver	herniation		0 (0)	0 (0)
eye	turbid		3 (100)	3 (100)

TABLE H3

GROSS FINDINGS : FEMALE

DEAD AND MORIBUND ANIMALS

Organ	Findings	Group Name / NO. of Animals	Control 0	(%)	28ppm 0	(%)	83ppm 0	(%)	250ppm 0	(%)
thymus	atrophic		-	(-)	-	(-)	-	(-)	-	(-)
stomach	gas		-	(-)	-	(-)	-	(-)	-	(-)

Organ	Findings	Group Name / NO. of Animals	500ppm 1	(%)	750ppm 1	(%)
thymus	atrophic		1	(100)	0	(0)
stomach	gas		0	(0)	1	(100)

TABLE H4

GROSS FINDINGS : FEMALE

SACRIFICED ANIMALS

Organ	Findings	Group Name / NO. of Animals	Control 5 (%)	28ppm 5 (%)	83ppm 5 (%)	250ppm 5 (%)
thymus	atrophic		0 (0)	0 (0)	0 (0)	0 (0)
stomach	gas		0 (0)	0 (0)	0 (0)	0 (0)
small intes	gas		0 (0)	0 (0)	0 (0)	0 (0)
large intes	gas		0 (0)	0 (0)	0 (0)	0 (0)
liver	herniation		0 (0)	0 (0)	2 (40)	0 (0)
eye	turbid		0 (0)	0 (0)	0 (0)	2 (40)

Organ	Findings	Group Name	500ppm	750ppm
		NO. of Animals	4 (%)	4 (%)
thymus	atrophic		0 (0)	4 (100)
stomach	gas		0 (0)	1 (25)
small intes	gas		0 (0)	3 (75)
large intes	gas		0 (0)	3 (75)
liver	herniation		1 (25)	1 (25)
eye	turbid		4 (100)	4 (100)

TABLE I1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	154± 16	0.262± 0.028	0.040± 0.001	2.267± 0.227	0.587± 0.061	0.657± 0.046
28ppm	5	152± 8	0.273± 0.038	0.045± 0.003*	2.401± 0.136	0.641± 0.059	0.693± 0.033
83ppm	5	139± 7	0.224± 0.016	0.043± 0.003	2.274± 0.120	0.598± 0.037	0.644± 0.034
250ppm	5	118± 5**	0.147± 0.020**	0.049± 0.002**	2.186± 0.178	0.533± 0.037	0.597± 0.024*
500ppm	3	95± 5**	0.050± 0.005**	0.049± 0.002**	1.941± 0.079	0.480± 0.032*	0.605± 0.025
750ppm	3	86± 9**	0.032± 0.015**	0.050± 0.002**	1.560± 0.310**	0.458± 0.036**	0.553± 0.020**

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	1.221± 0.134	0.362± 0.033	4.682± 0.668	1.689± 0.080
28ppm	5	1.214± 0.073	0.364± 0.022	4.612± 0.329	1.698± 0.033
83ppm	5	1.143± 0.047	0.318± 0.022	4.180± 0.296	1.677± 0.019
250ppm	5	1.081± 0.046*	0.260± 0.019**	3.653± 0.091**	1.657± 0.035
500ppm	3	0.959± 0.056**	0.182± 0.008**	3.064± 0.146**	1.582± 0.048*
750ppm	3	0.949± 0.034**	0.135± 0.042**	2.827± 0.482**	1.566± 0.028**

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

TABLE I2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	107± 4	0.229± 0.027	0.047± 0.001	0.078± 0.014	0.468± 0.044	0.542± 0.027
28ppm	5	111± 4	0.251± 0.021	0.051± 0.006	0.074± 0.007	0.482± 0.023	0.564± 0.017
83ppm	5	104± 2	0.233± 0.010	0.050± 0.003	0.069± 0.007	0.475± 0.012	0.586± 0.012*
250ppm	5	90± 3**	0.123± 0.014**	0.052± 0.002	0.058± 0.011**	0.455± 0.030	0.519± 0.015
500ppm	4	82± 6**	0.072± 0.022**	0.056± 0.005**	0.043± 0.008**	0.450± 0.034	0.533± 0.040
750ppm	4	70± 4**	0.027± 0.008**	0.054± 0.002*	0.043± 0.003**	0.409± 0.042*	0.511± 0.062

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.900± 0.040	0.265± 0.008	3.182± 0.168	1.553± 0.029
28ppm	5	0.943± 0.051	0.280± 0.012	3.348± 0.143	1.574± 0.051
83ppm	5	0.922± 0.018	0.266± 0.012	3.150± 0.093	1.562± 0.019
250ppm	5	0.907± 0.042	0.206± 0.015**	2.909± 0.119	1.544± 0.022
500ppm	4	0.916± 0.056	0.176± 0.024**	2.987± 0.257	1.519± 0.024
750ppm	4	0.896± 0.081	0.116± 0.043**	2.526± 0.389**	1.514± 0.016

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

TABLE J1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	154± 16	0.170± 0.008	0.026± 0.002	1.478± 0.183	0.381± 0.009	0.426± 0.019
28ppm	5	152± 8	0.180± 0.017	0.030± 0.002	1.585± 0.058	0.422± 0.021*	0.458± 0.017
83ppm	5	139± 7	0.161± 0.014	0.031± 0.003*	1.633± 0.083	0.429± 0.019**	0.462± 0.024
250ppm	5	118± 5**	0.125± 0.015**	0.041± 0.003**	1.859± 0.175**	0.452± 0.018**	0.508± 0.019**
500ppm	3	95± 5**	0.053± 0.003**	0.051± 0.002**	2.051± 0.016**	0.507± 0.031**	0.639± 0.005**
750ppm	3	86± 9**	0.036± 0.013**	0.058± 0.003**	1.796± 0.183*	0.532± 0.025**	0.643± 0.039**

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.790± 0.019	0.235± 0.006	3.023± 0.159	1.100± 0.085
28ppm	5	0.801± 0.020	0.240± 0.006	3.040± 0.084	1.122± 0.069
83ppm	5	0.820± 0.012*	0.228± 0.008	2.997± 0.094	1.205± 0.053
250ppm	5	0.918± 0.020**	0.221± 0.011*	3.104± 0.108	1.408± 0.043**
500ppm	3	1.013± 0.020**	0.192± 0.003**	3.238± 0.128	1.673± 0.037**
750ppm	3	1.103± 0.074**	0.155± 0.031**	3.260± 0.226	1.823± 0.143**

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

TABLE J2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	107± 4	0.215± 0.025	0.044± 0.001	0.074± 0.013	0.438± 0.027	0.508± 0.020
28ppm	5	111± 4	0.225± 0.014	0.046± 0.005	0.067± 0.005	0.434± 0.022	0.508± 0.010
83ppm	5	104± 2	0.223± 0.008	0.048± 0.004	0.066± 0.006	0.455± 0.013	0.561± 0.013**
250ppm	5	90± 3**	0.137± 0.012**	0.058± 0.004**	0.064± 0.010	0.507± 0.036**	0.578± 0.032**
500ppm	4	82± 6**	0.087± 0.021**	0.069± 0.007**	0.052± 0.008**	0.550± 0.036**	0.652± 0.056**
750ppm	4	70± 4**	0.039± 0.010**	0.078± 0.003**	0.062± 0.005	0.588± 0.047**	0.738± 0.100**

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

STUDY NO. : 0681
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.843± 0.010	0.249± 0.005	2.978± 0.096	1.455± 0.049
28ppm	5	0.848± 0.016	0.252± 0.005	3.013± 0.132	1.416± 0.047
83ppm	5	0.884± 0.028**	0.255± 0.010	3.016± 0.037	1.496± 0.019*
250ppm	5	1.010± 0.036**	0.230± 0.016	3.243± 0.166	1.721± 0.050**
500ppm	4	1.120± 0.055**	0.214± 0.013*	3.641± 0.027**	1.861± 0.138**
750ppm	4	1.289± 0.094**	0.166± 0.055**	3.633± 0.537*	2.183± 0.118**

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

TABLE K1

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

ALL ANIMALS

Organ	Findings	Group Name / Grade	Control 1 (%)	Control 2 (%)	Control 3 (%)	Control 4 (%)	28ppm 1 (%)	28ppm 2 (%)	28ppm 3 (%)	28ppm 4 (%)	83ppm 1 (%)	83ppm 2 (%)	83ppm 3 (%)	83ppm 4 (%)	250ppm 1 (%)	250ppm 2 (%)	250ppm 3 (%)	250ppm 4 (%)
{Respiratory system}																		
nasal cavit		No. of Animals on Study	5				5				5				5			
			< 5>				< 5>				< 5>				< 5>			
	goblet 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)
	inflammation:squamous epithelium		0	0	0	0	1	0	0	0	4	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	inflammation:respiratory epithelium		0	0	0	0	0	0	0	0	1	1	0	0	0	1	4	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(20)	(0)	(0)	(0)	(20)	(80)	(0)
	squamous cell metaplasia:respiratory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	0	5	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	ulcer:squamous epithelium		0	0	0	0	0	0	0	0	2	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	ulcer:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(20)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 5>				< 5>			
	goblet cell hyperplasia		2	2	0	0	1	3	0	0
			(40)	(40)	(0)	(0)	(20)	(60)	(0)	(0)
	inflammation:squamous epithelium		0	0	1	4	0	0	0	5
			(0)	(0)	(20)	(80)	(0)	(0)	(0)	(100)
	inflammation:respiratory epithelium		0	0	5	0	0	1	4	0
			(0)	(0)	(100)	(0)	(0)	(20)	(80)	(0)
	squamous cell metaplasia:respiratory epithelium		0	4	0	0	2	3	0	0
			(0)	(80)	(0)	(0)	(40)	(60)	(0)	(0)
	ulcer:squamous epithelium		0	0	5	0	0	0	5	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	ulcer:respiratory epithelium		0	0	5	0	0	1	4	0
			(0)	(0)	(100)	(0)	(0)	(20)	(80)	(0)
	atrophy:olfactory epithelium		3	1	0	0	4	0	0	0
			(60)	(20)	(0)	(0)	(80)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	4	1	0	1	4	0	0
			(0)	(80)	(20)	(0)	(20)	(80)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	necrosis:squamous epithelium		0	0	0	0	0	0	0	0	4	0	0	0	0	1	4	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(0)	(20)	(80)	(0)
nasopharynx			< 5>				< 5>				< 5>				< 5>			
	inflammation		0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	squamous cell metaplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(20)	(0)	(0)
	necrosis:epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
larynx			< 5>				< 5>				< 5>				< 5>			
	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)
	squamous cell metaplasia		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
trachea			< 5>				< 5>				< 5>				< 5>			
	degeneration:epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 5>				< 5>			
	necrosis:squamous epithelium		0	0	4	1	0	0	5	0
			(0)	(0)	(80)	(20)	(0)	(0)	(100)	(0)
nasopharynx			< 5>				< 5>			
	inflammation		2	2	0	0	3	2	0	0
			(40)	(40)	(0)	(0)	(60)	(40)	(0)	(0)
	squamous cell metaplasia		0	5	0	0	0	3	1	0
			(0)	(100)	(0)	(0)	(0)	(60)	(20)	(0)
	necrosis:epithelium		3	0	0	0	3	0	1	0
			(60)	(0)	(0)	(0)	(60)	(0)	(20)	(0)
larynx			< 5>				< 5>			
	inflammation		2	1	0	0	5	0	0	0
			(40)	(20)	(0)	(0)	(100)	(0)	(0)	(0)
	squamous cell metaplasia		3	1	0	0	0	4	1	0
			(60)	(20)	(0)	(0)	(0)	(80)	(20)	(0)
trachea			< 5>				< 5>			
	degeneration:epithelium		0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(20)	(20)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control				28ppm				83ppm				250ppm			
			5				5				5				5			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Respiratory system}																		
trachea			< 5>				< 5>				< 5>				< 5>			
	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)
	necrosis: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			< 5>				< 5>				< 5>				< 5>			
	hemorrhage		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	inflammation:foreign body		0 (0)	0 (0)	0 (0)	0 (0)	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}																		
thymus			< 0>				< 0>				< 0>				< 0>			
	atrophy		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Digestive system}																		
liver			< 5>				< 5>				< 5>				< 5>			
	herniation		0 (0)	0 (0)	0 (0)	0 (0)	1 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (20)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
trachea			< 5>				< 5>			
	inflammation		1	0	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:epithelium		0	1	0	0	0	0	0	0
			(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)
lung			< 5>				< 5>			
	hemorrhage		0	1	0	0	0	0	0	0
			(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation:foreign body		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Hematopoietic system}										
thymus			< 2>				< 5>			
	atrophy		0	0	2	0	0	0	5	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
{Digestive system}										
liver			< 5>				< 5>			
	herniation		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 5				28ppm 5				83ppm 5				250ppm 5			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Digestive system}																		
liver			< 5>				< 5>				< 5>				< 5>			
	necrosis:central		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	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)
{Urinary system}																		
kidney			< 5>				< 5>				< 5>				< 5>			
	eosinophilic body		2 (40)	0 (0)	0 (0)	0 (0)	1 (20)	0 (0)	0 (0)	0 (0)	2 (40)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
{Special sense organs/appendage}																		
eye			< 5>				< 5>				< 5>				< 5>			
	keratitis		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}										
liver			< 5>				< 5>			
	necrosis:central		1	0	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		1	0	0	0	1	0	0	0
			(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Urinary system}										
kidney			< 5>				< 5>			
	eosinophilic body		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}										
eye			< 5>				< 5>			
	keratitis		0	0	3	2	0	0	4	1
			(0)	(0)	(60)	(40)	(0)	(0)	(80)	(20)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

TABLE K2

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

DEAD AND MORIBUND ANIMALS

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 0>				< 0>				< 0>				< 0>			
	goblet cell hyperplasia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	inflammation:squamous epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	inflammation:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	squamous cell metaplasia:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	ulcer:squamous epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	ulcer:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	atrophy:olfactory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	2				2			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 2>				< 2>			
	goblet cell hyperplasia		1	0	0	0	0	1	0	0
			(50)	(0)	(0)	(0)	(0)	(50)	(0)	(0)
	inflammation:squamous epithelium		0	0	0	2	0	0	0	2
			(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)
	inflammation:respiratory epithelium		0	0	2	0	0	1	1	0
			(0)	(0)	(100)	(0)	(0)	(50)	(50)	(0)
	squamous cell metaplasia:respiratory epithelium		0	1	0	0	1	1	0	0
			(0)	(50)	(0)	(0)	(50)	(50)	(0)	(0)
	ulcer:squamous epithelium		0	0	2	0	0	0	2	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	ulcer:respiratory epithelium		0	0	2	0	0	1	1	0
			(0)	(0)	(100)	(0)	(0)	(50)	(50)	(0)
	atrophy:olfactory epithelium		0	1	0	0	1	0	0	0
			(0)	(50)	(0)	(0)	(50)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	1	1	0	1	1	0	0
			(0)	(50)	(50)	(0)	(50)	(50)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 0>				< 0>				< 0>				< 0>			
	necrosis:squamous epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
nasopharynx			< 0>				< 0>				< 0>				< 0>			
	inflammation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	squamous cell metaplasia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
larynx			< 0>				< 0>				< 0>				< 0>			
	inflammation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	squamous cell metaplasia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
trachea			< 0>				< 0>				< 0>				< 0>			
	degeneration:epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	2				2			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 2>				< 2>			
	necrosis:squamous epithelium		0	0	1	1	0	0	2	0
			(0)	(0)	(50)	(50)	(0)	(0)	(100)	(0)
nasopharynx			< 2>				< 2>			
	inflammation		0	1	0	0	1	1	0	0
			(0)	(50)	(0)	(0)	(50)	(50)	(0)	(0)
	squamous cell metaplasia		0	2	0	0	0	1	0	0
			(0)	(100)	(0)	(0)	(0)	(50)	(0)	(0)
	necrosis:epithelium		2	0	0	0	1	0	1	0
			(100)	(0)	(0)	(0)	(50)	(0)	(50)	(0)
larynx			< 2>				< 2>			
	inflammation		1	0	0	0	2	0	0	0
			(50)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	squamous cell metaplasia		1	0	0	0	0	1	1	0
			(50)	(0)	(0)	(0)	(0)	(50)	(50)	(0)
trachea			< 2>				< 2>			
	degeneration:epithelium		0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(50)	(50)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
trachea			< 0>				< 0>				< 0>				< 0>			
	inflammation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
lung			< 0>				< 0>				< 0>				< 0>			
	hemorrhage		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	inflammation:foreign body		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
{Hematopoietic system}																		
thymus			< 0>				< 0>				< 0>				< 0>			
	atrophy		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
{Digestive system}																		
liver			< 0>				< 0>				< 0>				< 0>			
	necrosis:central		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	2				2			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
trachea			< 2>				< 2>			
	inflammation		1	0	0	0	0	0	0	0
			(50)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:epithelium		0	1	0	0	0	0	0	0
			(0)	(50)	(0)	(0)	(0)	(0)	(0)	(0)
lung			< 2>				< 2>			
	hemorrhage		0	1	0	0	0	0	0	0
			(0)	(50)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammation:foreign body		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
{Hematopoietic system}										
thymus			< 0>				< 2>			
	atrophy		0	0	0	0	0	0	2	0
			(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
{Digestive system}										
liver			< 2>				< 2>			
	necrosis:central		1	0	0	0	0	0	0	0
			(50)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			< 0>				< 0>				< 0>				< 0>			
	necrosis:focal		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
{Special sense organs/appendage}																		
eye			< 0>				< 0>				< 0>				< 0>			
	keratitis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	2				2			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}										
liver			< 2>				< 2>			
	necrosis:focal		1	0	0	0	0	0	0	0
			(50)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}										
eye			< 2>				< 2>			
	keratitis		0	0	2	0	0	0	2	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

TABLE K3

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

SACRIFICED ANIMALS

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	goblet 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)
	inflammation:squamous epithelium		0	0	0	0	1	0	0	0	4	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	inflammation:respiratory epithelium		0	0	0	0	0	0	0	0	1	1	0	0	0	1	4	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(20)	(0)	(0)	(0)	(20)	(80)	(0)
	squamous cell metaplasia:respiratory epithelium		0	0	0	0	0	0	0	0	1	0	0	0	0	5	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	ulcer:squamous epithelium		0	0	0	0	0	0	0	0	2	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	ulcer:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(20)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	3				3			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 3>				< 3>			
	goblet cell hyperplasia		1	2	0	0	1	2	0	0
			(33)	(67)	(0)	(0)	(33)	(67)	(0)	(0)
	inflammation:squamous epithelium		0	0	1	2	0	0	0	3
			(0)	(0)	(33)	(67)	(0)	(0)	(0)	(100)
	inflammation:respiratory epithelium		0	0	3	0	0	0	3	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	squamous cell metaplasia:respiratory epithelium		0	3	0	0	1	2	0	0
			(0)	(100)	(0)	(0)	(33)	(67)	(0)	(0)
	ulcer:squamous epithelium		0	0	3	0	0	0	3	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	ulcer:respiratory epithelium		0	0	3	0	0	0	3	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	atrophy:olfactory epithelium		3	0	0	0	3	0	0	0
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	3	0	0	0	3	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 b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	necrosis:squamous epithelium		0	0	0	0	0	0	0	0	4	0	0	0	0	1	4	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(0)	(20)	(80)	(0)
nasopharynx			< 5>				< 5>				< 5>				< 5>			
	inflammation		0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	squamous cell metaplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(20)	(0)	(0)
	necrosis:epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
larynx			< 5>				< 5>				< 5>				< 5>			
	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)
	squamous cell metaplasia		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
{Hematopoietic system}																		
thymus			< 0>				< 0>				< 0>				< 0>			
	atrophy		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	3				3			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 3>				< 3>			
	necrosis:squamous epithelium		0	0	3	0	0	0	3	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
nasopharynx			< 3>				< 3>			
	inflammation		2	1	0	0	2	1	0	0
			(67)	(33)	(0)	(0)	(67)	(33)	(0)	(0)
	squamous cell metaplasia		0	3	0	0	0	2	1	0
			(0)	(100)	(0)	(0)	(0)	(67)	(33)	(0)
	necrosis:epithelium		1	0	0	0	2	0	0	0
			(33)	(0)	(0)	(0)	(67)	(0)	(0)	(0)
larynx			< 3>				< 3>			
	inflammation		1	1	0	0	3	0	0	0
			(33)	(33)	(0)	(0)	(100)	(0)	(0)	(0)
	squamous cell metaplasia		2	1	0	0	0	3	0	0
			(67)	(33)	(0)	(0)	(0)	(100)	(0)	(0)
{Hematopoietic system}										
thymus			< 2>				< 3>			
	atrophy		0	0	2	0	0	0	3	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			< 5>				< 5>				< 5>				< 5>			
	herniation		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	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)
{Urinary system}																		
kidney			< 5>				< 5>				< 5>				< 5>			
	eosinophilic body		2	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
			(40)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye			< 5>				< 5>				< 5>				< 5>			
	keratitis		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	3				3			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}										
liver			< 3>				< 3>			
	herniation		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(33)	(0)	(0)	(0)
{Urinary system}										
kidney			< 3>				< 3>			
	eosinophilic body		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}										
eye			< 3>				< 3>			
	keratitis		0	0	1	2	0	0	2	1
			(0)	(0)	(33)	(67)	(0)	(0)	(67)	(33)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

TABLE K4

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

ALL ANIMALS

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	goblet 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)
	inflammation:squamous epithelium		0	0	0	0	1	0	0	0	2	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	inflammation:respiratory epithelium		0	0	0	0	2	0	0	0	3	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	squamous cell metaplasia:respiratory epithelium		0	0	0	0	1	0	0	0	1	0	0	0	0	4	1	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(80)	(20)	(0)
	ulcer:squamous epithelium		0	0	0	0	0	0	0	0	2	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	ulcer:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 5>				< 5>			
	goblet cell hyperplasia		4	0	0	0	3	0	0	0
			(80)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
	inflammation:squamous epithelium		0	0	1	4	0	0	0	5
			(0)	(0)	(20)	(80)	(0)	(0)	(0)	(100)
	inflammation:respiratory epithelium		0	0	5	0	0	1	4	0
			(0)	(0)	(100)	(0)	(0)	(20)	(80)	(0)
	squamous cell metaplasia:respiratory epithelium		1	3	1	0	1	3	0	0
			(20)	(60)	(20)	(0)	(20)	(60)	(0)	(0)
	ulcer:squamous epithelium		0	0	5	0	0	0	5	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	ulcer:respiratory epithelium		0	1	4	0	0	0	5	0
			(0)	(20)	(80)	(0)	(0)	(0)	(100)	(0)
	atrophy:olfactory epithelium		5	0	0	0	3	0	0	0
			(100)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	5	0	0	0	2	3	0
			(0)	(100)	(0)	(0)	(0)	(40)	(60)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	necrosis:squamous epithelium		0	0	0	0	0	0	0	0	1	1	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(20)	(0)	(0)	(0)	(0)	(100)	(0)
nasopharynx			< 5>				< 5>				< 5>				< 5>			
	inflammation		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
	squamous cell metaplasia		0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	necrosis:epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
larynx			< 5>				< 5>				< 5>				< 5>			
	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)
	squamous cell metaplasia		0	0	0	0	0	0	0	0	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			< 5>				< 5>				< 5>				< 5>			
	inflammation:foreign body		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 5>				< 5>			
	necrosis:squamous epithelium		0	1	4	0	0	0	3	2
			(0)	(20)	(80)	(0)	(0)	(0)	(60)	(40)
nasopharynx			< 5>				< 5>			
	inflammation		3	2	0	0	1	3	0	0
			(60)	(40)	(0)	(0)	(20)	(60)	(0)	(0)
	squamous cell metaplasia		0	2	3	0	1	2	1	0
			(0)	(40)	(60)	(0)	(20)	(40)	(20)	(0)
	necrosis:epithelium		3	0	0	0	2	0	1	0
			(60)	(0)	(0)	(0)	(40)	(0)	(20)	(0)
larynx			< 5>				< 5>			
	inflammation		0	0	0	0	3	1	0	0
			(0)	(0)	(0)	(0)	(60)	(20)	(0)	(0)
	squamous cell metaplasia		3	0	0	0	2	3	0	0
			(60)	(0)	(0)	(0)	(40)	(60)	(0)	(0)
lung			< 5>				< 5>			
	inflammation:foreign body		0	1	0	0	0	0	0	0
			(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
{Hematopoietic system}																		
thymus			< 0>				< 0>				< 0>				< 0>			
	atrophy		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
liver			< 5>				< 5>				< 5>				< 5>			
	herniation		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			< 5>				< 5>				< 5>				< 5>			
	mineralization:cortico-medullary junction		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye			< 5>				< 5>				< 5>				< 5>			
	keratitis		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	5				5			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}										
thymus			< 1>				< 4>			
	atrophy		0	0	1	0	0	0	4	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
{Digestive system}										
liver			< 5>				< 5>			
	herniation		1	0	0	0	1	0	0	0
			(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Urinary system}										
kidney			< 5>				< 5>			
	mineralization:cortico-medullary junction		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}										
eye			< 5>				< 5>			
	keratitis		0	1	3	1	0	1	1	3
			(0)	(20)	(60)	(20)	(0)	(20)	(20)	(60)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

TABLE K5

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

DEAD AND MORIBUND ANIMALS

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 0>				< 0>				< 0>				< 0>			
	goblet cell hyperplasia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	inflammation:squamous epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	inflammation:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	squamous cell metaplasia:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	ulcer:squamous epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	ulcer:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	atrophy:olfactory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	1				1			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 1>				< 1>			
	goblet cell hyperplasia		1	0	0	0	1	0	0	0
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	inflammation:squamous epithelium		0	0	0	1	0	0	0	1
			(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)
	inflammation:respiratory epithelium		0	0	1	0	0	0	1	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	squamous cell metaplasia:respiratory epithelium		1	0	0	0	0	0	0	0
			(100)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:squamous epithelium		0	0	1	0	0	0	1	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	ulcer:respiratory epithelium		0	0	1	0	0	0	1	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	atrophy:olfactory epithelium		1	0	0	0	0	0	0	0
			(100)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	1	0	0	0	0	1	0
			(0)	(100)	(0)	(0)	(0)	(0)	(100)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 0>				< 0>				< 0>				< 0>			
	necrosis:squamous epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
nasopharynx			< 0>				< 0>				< 0>				< 0>			
	inflammation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	squamous cell metaplasia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
larynx			< 0>				< 0>				< 0>				< 0>			
	inflammation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	squamous cell metaplasia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
lung			< 0>				< 0>				< 0>				< 0>			
	inflammation:foreign body		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	1				1			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 1>				< 1>			
	necrosis:squamous epithelium		0	0	1	0	0	0	0	1
			(0)	(0)	(100)	(0)	(0)	(0)	(0)	(100)
nasopharynx			< 1>				< 1>			
	inflammation		1	0	0	0	0	1	0	0
			(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	squamous cell metaplasia		0	1	0	0	0	0	0	0
			(0)	(100)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:epithelium		1	0	0	0	0	0	1	0
			(100)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
larynx			< 1>				< 1>			
	inflammation		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	squamous cell metaplasia		0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
lung			< 1>				< 1>			
	inflammation:foreign body		0	1	0	0	0	0	0	0
			(0)	(100)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	0				0				0				0			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
thymus			< 0>				< 0>				< 0>				< 0>			
	atrophy		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
{Special sense organs/appendage}																		
eye			< 0>				< 0>				< 0>				< 0>			
	keratitis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	1				1			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}										
thymus			< 1>				< 0>			
	atrophy		0	0	1	0	0	0	0	0
			(0)	(0)	(100)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}										
eye			< 1>				< 1>			
	keratitis		0	1	0	0	0	0	1	0
			(0)	(100)	(0)	(0)	(0)	(0)	(100)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

TABLE K6

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

SACRIFICED ANIMALS

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	goblet 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)
	inflammation:squamous epithelium		0	0	0	0	1	0	0	0	2	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	inflammation:respiratory epithelium		0	0	0	0	2	0	0	0	3	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	squamous cell metaplasia:respiratory epithelium		0	0	0	0	1	0	0	0	1	0	0	0	0	4	1	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(80)	(20)	(0)
	ulcer:squamous epithelium		0	0	0	0	0	0	0	0	2	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	ulcer:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
	atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	4				4			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 4>				< 4>			
	goblet cell hyperplasia		3	0	0	0	2	0	0	0
			(75)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
	inflammation:squamous epithelium		0	0	1	3	0	0	0	4
			(0)	(0)	(25)	(75)	(0)	(0)	(0)	(100)
	inflammation:respiratory epithelium		0	0	4	0	0	1	3	0
			(0)	(0)	(100)	(0)	(0)	(25)	(75)	(0)
	squamous cell metaplasia:respiratory epithelium		0	3	1	0	1	3	0	0
			(0)	(75)	(25)	(0)	(25)	(75)	(0)	(0)
	ulcer:squamous epithelium		0	0	4	0	0	0	4	0
			(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)
	ulcer:respiratory epithelium		0	1	3	0	0	0	4	0
			(0)	(25)	(75)	(0)	(0)	(0)	(100)	(0)
	atrophy:olfactory epithelium		4	0	0	0	3	0	0	0
			(100)	(0)	(0)	(0)	(75)	(0)	(0)	(0)
	necrosis:respiratory epithelium		0	4	0	0	0	2	2	0
			(0)	(100)	(0)	(0)	(0)	(50)	(50)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	necrosis:squamous epithelium		0	0	0	0	0	0	0	0	1	1	0	0	0	0	5	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(20)	(0)	(0)	(0)	(0)	(100)	(0)
nasopharynx			< 5>				< 5>				< 5>				< 5>			
	inflammation		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
	squamous cell metaplasia		0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	necrosis:epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
larynx			< 5>				< 5>				< 5>				< 5>			
	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)
	squamous cell metaplasia		0	0	0	0	0	0	0	0	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}																		
thymus			< 0>				< 0>				< 0>				< 0>			
	atrophy		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	4				4			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 4>				< 4>			
	necrosis:squamous epithelium		0	1	3	0	0	0	3	1
			(0)	(25)	(75)	(0)	(0)	(0)	(75)	(25)
nasopharynx			< 4>				< 4>			
	inflammation		2	2	0	0	1	2	0	0
			(50)	(50)	(0)	(0)	(25)	(50)	(0)	(0)
	squamous cell metaplasia		0	1	3	0	1	2	1	0
			(0)	(25)	(75)	(0)	(25)	(50)	(25)	(0)
	necrosis:epithelium		2	0	0	0	2	0	0	0
			(50)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
larynx			< 4>				< 4>			
	inflammation		0	0	0	0	2	1	0	0
			(0)	(0)	(0)	(0)	(50)	(25)	(0)	(0)
	squamous cell metaplasia		3	0	0	0	1	3	0	0
			(75)	(0)	(0)	(0)	(25)	(75)	(0)	(0)
{Hematopoietic system}										
thymus			< 0>				< 4>			
	atrophy		0	0	0	0	0	0	4	0
			(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	Control				28ppm				83ppm				250ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			< 5>				< 5>				< 5>				< 5>			
	herniation		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Urinary system}																		
kidney			< 5>				< 5>				< 5>				< 5>			
	mineralization:cortico-medullary junction		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
{Special sense organs/appendage}																		
eye			< 5>				< 5>				< 5>				< 5>			
	keratitis		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

Organ	Findings	Group Name	500ppm				750ppm			
		No. of Animals on Study	4				4			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}										
liver			< 4>				< 4>			
	herniation		1	0	0	0	1	0	0	0
			(25)	(0)	(0)	(0)	(25)	(0)	(0)	(0)
{Urinary system}										
kidney			< 4>				< 4>			
	mineralization:cortico-medullary junction		0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Special sense organs/appendage}										
eye			< 4>				< 4>			
	keratitis		0	0	3	1	0	1	0	3
			(0)	(0)	(75)	(25)	(0)	(25)	(0)	(75)

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