

メタクリル酸 2,3-エポキシプロピルのラットを
用いた吸入による 2 週間毒性試験報告書

試験番号：0757

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TABLE A

**CONCENTRATIONS OF 2,3-EPOXYPROPYL METHACRYLATE
IN THE INHALATION CHAMBER
OF THE 2-WEEK INHALATION STUDY**

CONCENTRATIONS OF 2,3-EPOXYPROPYL METHACRYLATE IN THE
INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

Group Name	Concentration(ppm)
	Mean \pm S.D.
Control	0.0 \pm 0.0
5 ppm	5.0 \pm 0.1
10 ppm	10.2 \pm 0.2
20 ppm	20.2 \pm 0.1
40 ppm	40.5 \pm 0.3
80 ppm	80.4 \pm 0.5

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0757

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

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	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
5ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
10ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
20ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
40ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
80ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	3/ 5 60.0
Number of survival/ Number of effective animals		Survival rate(%)													

(HAN360)

BAIS4

STUDY NO. : 0757

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 2

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
5ppm	5	5/ 5 100.0
10ppm	5	5/ 5 100.0
20ppm	5	5/ 5 100.0
40ppm	5	5/ 5 100.0
80ppm	5	2/ 5 40.0
Number of survival/ Number of effective animals Survival rate(%)		

(HAN360)

BAIS4

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0757

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 3

Group Name	Animals At start	Administration (Days)													
		0-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	2-1	2-2	2-3	2-4	2-5	2-6
Control	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
5ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
10ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
20ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
40ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
80ppm	5	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0	5/ 5 100.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0757

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 4

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
5ppm	5	5/ 5 100.0
10ppm	5	5/ 5 100.0
20ppm	5	5/ 5 100.0
40ppm	5	5/ 5 100.0
80ppm	5	4/ 5 80.0
Number of survival/ Number of effective animals Survival rate(%)		

(HAN360)

BAIS4

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day												
		1-2	1-3	1-4	1-4	1-7	2-1	2-3	2-3	2-4	2-4	2-6	2-7	2-7
		A	B	A	B	A	B	A	B	A	B	A	A	B
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	0	0	2	3	3
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	0	5	3	2	2
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	1	0	1	5	5	5	0	0
	80ppm	0	0	0	5	5	5	5	5	5	5	3	2	2
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	1	1	1	1	1	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	2	4	0	1	4	5	5	5	3	0	1
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	2	5	3	0	0

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day											
		1-2	1-3	1-4	1-4	1-7	2-1	2-3	2-3	2-4	2-4	2-6	2-7
		A	B	A	B	A	B	A	B	A	B	A	B
DYSPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	1	0	5	1	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	5	5	5	5	5	5
	80ppm	0	5	5	5	5	5	5	4	4	0	2	2
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	5	1	5	5	5	0	5	5	0
	80ppm	0	5	5	5	5	5	5	5	5	5	3	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	5	0	3	5	4	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	4	0	0	0

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0757

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE : 3

Clinical sign	Group Name	Administration Week-day											
		1-2	1-3	1-4	1-4	1-7	2-1	2-3	2-3	2-4	2-4	2-6	2-7
		A	B	A	B	A	B	A	B	A	B	A	B
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	0	0	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	0	1	0	0
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	5	5	4	4
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	5	5	5	0	0
	80ppm	0	0	5	5	5	5	5	5	5	5	4	4
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	0	0	0	4
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	3	5	0	3	3	5	5	5	1	3

STUDY NO. : 0757

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE : 4

Clinical sign	Group Name	Administration Week-day												
		1-2	1-3	1-4	1-4	1-7	2-1	2-3	2-3	2-4	2-4	2-6	2-7	2-7
		A	B	A	B	A	B	A	B	A	B	A	A	B
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	1	0	0	0	0	5	5	5	0	0
DYSYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	0	5	1	0	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	1	0	0	1	2	5	5	5	0	5
	80ppm	0	5	5	5	5	5	5	5	5	0	4	4	3
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	4	0	5	5	5	0	0	3	0	0
	80ppm	0	5	5	5	5	5	5	5	5	5	5	0	0
BRADYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	5	0	5	5	4	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0
	5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	10ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	20ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	40ppm	0	0	0	0	0	0	0	0	0	0	0	0	0
	80ppm	0	0	0	0	0	0	0	0	5	0	0	0	0

TABLE D1

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

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		5ppm		10ppm		20ppm		40ppm		80ppm						
	Av. Wt.	No. of Surviv. < 5>	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.			
0-0	125 (5)	5/ 5	125 (5)	100	5/ 5	125 (5)	100	5/ 5	125 (5)	100	5/ 5	125 (5)	100	5/ 5	125 (5)	100	5/ 5
1-2	131 (5)	5/ 5	131 (5)	100	5/ 5	131 (5)	100	5/ 5	131 (5)	100	5/ 5	128 (5)	98	5/ 5	122 (5)	93	5/ 5
1-4	137 (5)	5/ 5	137 (5)	100	5/ 5	136 (5)	99	5/ 5	133 (5)	97	5/ 5	120 (5)	88	5/ 5	105 (5)	77	5/ 5
1-7	147 (5)	5/ 5	147 (5)	100	5/ 5	147 (5)	100	5/ 5	147 (5)	100	5/ 5	129 (5)	88	5/ 5	111 (5)	76	5/ 5
2-3	158 (5)	5/ 5	158 (5)	100	5/ 5	159 (5)	101	5/ 5	154 (5)	97	5/ 5	122 (5)	77	5/ 5	93 (5)	59	5/ 5
2-7	173 (5)	5/ 5	173 (5)	100	5/ 5	175 (5)	101	5/ 5	169 (5)	98	5/ 5	141 (5)	82	5/ 5	110 (2)	64	2/ 5
< >:No. of effective animals, ():No. of measured animals Av. Wt. : g																	

(BI0040)

BAIS 4

TABLE D2

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

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		5ppm		10ppm		20ppm		40ppm		80ppm						
	Av. Wt.	No. of Surviv. < 5>	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.	Av. Wt.	% of cont. < 5>	No. of Surviv.			
0-0	100 (5)	5/ 5	100 (5)	100	5/ 5	100 (5)	100	5/ 5	100 (5)	100	5/ 5	100 (5)	100	5/ 5	100 (5)	100	5/ 5
1-2	105 (5)	5/ 5	104 (5)	99	5/ 5	105 (5)	100	5/ 5	103 (5)	98	5/ 5	100 (5)	95	5/ 5	97 (5)	92	5/ 5
1-4	107 (5)	5/ 5	106 (5)	99	5/ 5	107 (5)	100	5/ 5	102 (5)	95	5/ 5	96 (5)	90	5/ 5	82 (5)	77	5/ 5
1-7	113 (5)	5/ 5	109 (5)	96	5/ 5	110 (5)	97	5/ 5	110 (5)	97	5/ 5	101 (5)	89	5/ 5	90 (5)	80	5/ 5
2-3	118 (5)	5/ 5	117 (5)	99	5/ 5	117 (5)	99	5/ 5	111 (5)	94	5/ 5	96 (5)	81	5/ 5	75 (5)	64	5/ 5
2-7	127 (5)	5/ 5	124 (5)	98	5/ 5	124 (5)	98	5/ 5	120 (5)	94	5/ 5	109 (5)	86	5/ 5	89 (4)	70	4/ 5
< >:No. of effective animals, ():No. of measured animals																	
Av. Wt. : g																	

(B10040)

BAIS 4

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

Group Name	Administration		week-day									
	0-0		1-2		1-4		1-7		2-3		2-7	
Control	125±	4	131±	4	137±	5	147±	5	158±	5	173±	6
5ppm	125±	4	131±	6	137±	7	147±	8	158±	10	173±	11
10ppm	125±	4	131±	5	136±	6	147±	6	159±	6	175±	7
20ppm	125±	4	131±	3	133±	3	147±	4	154±	4	169±	4
40ppm	125±	4	128±	5	120±	5**	129±	5**	122±	6**	141±	7**
80ppm	125±	4	122±	5*	105±	1**	111±	6**	93±	7**	110±	0 ?

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

Test of Dunnett

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

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration		week-day									
	0-0		1-2		1-4		1-7		2-3		2-7	
Control	100±	4	105±	4	107±	5	113±	4	118±	6	127±	7
5ppm	100±	3	104±	3	106±	1	109±	2	117±	3	124±	3
10ppm	100±	3	105±	3	107±	4	110±	6	117±	5	124±	6
20ppm	100±	3	103±	4	102±	5	110±	5	111±	6	120±	6
40ppm	100±	3	100±	3	96±	3**	101±	5**	96±	5**	109±	4**
80ppm	100±	4	97±	4*	82±	2**	90±	3**	75±	5**	89±	4**

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. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		5ppm		10ppm		20ppm		40ppm		80ppm						
	Av. FC.	No. of Surviv. < 5>	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.			
1-7	15.3 (5)	5/ 5	15.2 (4)	99	5/ 5	15.9 (5)	104	5/ 5	13.5 (5)	88	5/ 5	9.7 (5)	63	5/ 5	6.3 (5)	41	5/ 5
2-7	16.1 (5)	5/ 5	15.2 (5)	94	5/ 5	15.9 (5)	99	5/ 5	13.7 (5)	85	5/ 5	10.6 (5)	66	5/ 5	8.2 (2)	51	2/ 5
< >:No. of effective animals, ():No. of measured animals																	
Av. FC. : g																	

(BI0040)

BAIS 4

TABLE E2

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

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		5ppm		10ppm		20ppm		40ppm		80ppm						
	Av. FC.	No. of Surviv. < 5>	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.	Av. FC.	% of cont. < 5>	No. of Surviv.			
1-7	12.6 (5)	5/ 5	12.0 (5)	95	5/ 5	12.2 (5)	97	5/ 5	10.5 (5)	83	5/ 5	8.0 (5)	63	5/ 5	5.5 (5)	44	5/ 5
2-7	12.4 (5)	5/ 5	11.5 (5)	93	5/ 5	11.6 (5)	94	5/ 5	10.2 (5)	82	5/ 5	9.0 (5)	73	5/ 5	7.7 (4)	62	4/ 5
< >:No. of effective animals, ():No. of measured animals Av. FC. : g																	

(BI0040)

BAIS 4

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration week-day(effective)	
	1-7(6)	2-7(7)
Control	15.3± 1.1	16.1± 1.7
5ppm	15.2± 1.8	15.2± 1.7
10ppm	15.9± 1.3	15.9± 1.5
20ppm	13.5± 0.5	13.7± 0.2**
40ppm	9.7± 0.5**	10.6± 0.8**
80ppm	6.3± 1.3**	8.2± 0.1 ?

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

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

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 2

Group Name	Administration 1-7(6)	week-day(effective) 2-7(7)
------------	--------------------------	-------------------------------

Control	12.6± 0.6	12.4± 0.6
5ppm	12.0± 0.5	11.5± 0.7
10ppm	12.2± 0.9	11.6± 1.1
20ppm	10.5± 0.3**	10.2± 0.6**
40ppm	8.0± 0.4**	9.0± 0.6**
80ppm	5.5± 0.6**	7.7± 0.6**

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

Test of Dunnett

(HAN260)

BAIS 4

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (3W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	5	8.90±	0.20	15.8±	0.3	45.8±	1.1	51.5±	0.3	17.8±	0.2	34.5±	0.4	965±	52
5ppm	5	9.02±	0.23	16.0±	0.4	46.8±	1.1	51.8±	0.5	17.7±	0.1	34.2±	0.4	978±	62
10ppm	5	8.86±	0.31	15.7±	0.4	45.8±	1.3	51.7±	0.4	17.8±	0.2	34.3±	0.2	973±	57
20ppm	5	8.86±	0.11	15.8±	0.1	45.8±	0.6	51.7±	0.4	17.8±	0.1	34.4±	0.2	905±	35
40ppm	5	9.07±	0.19	16.2±	0.4	46.4±	0.9	51.2±	0.3	17.8±	0.2	34.8±	0.4	780±	43**
80ppm	2	9.51±	0.33 ?	16.8±	0.4 ?	48.7±	1.4 ?	51.3±	0.4 ?	17.7±	0.1 ?	34.5±	0.0 ?	693±	3 ?

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

Test of Dunnett

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

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %	
Control	5	2.7±	0.2
5ppm	5	2.8±	0.3
10ppm	5	2.8±	0.2
20ppm	5	2.7±	0.3
40ppm	5	1.9±	0.3**
80ppm	2	0.7±	0.2 ?

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

Test of Dunnett

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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (3W)

PAGE : 3

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential NEUTRO		WBC (%) LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	5	4.79±	1.31	21±	3	75±	3	2±	0	1±	0	0±	0	1±	0
5ppm	5	6.02±	1.04	19±	5	77±	4	2±	1	1±	0	0±	0	1±	0
10ppm	5	5.17±	1.10	20±	4	76±	4	2±	0	1±	0	0±	0	1±	1
20ppm	5	5.32±	1.26	17±	4	79±	4	2±	0	1±	0	0±	0	1±	0
40ppm	5	6.15±	1.42	21±	3	75±	2	2±	1	1±	0	0±	0	1±	0
80ppm	2	4.29±	0.25 ?	33±	1 ?	62±	1 ?	4±	0 ?	1±	0 ?	0±	0 ?	1±	0 ?

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

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

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

REPORT TYPE : A1

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 ³ /μl	
Control	5	9.20±	0.23	16.6±	0.5	46.9±	0.9	51.0±	0.5	18.0±	0.1	35.3±	0.5	870±	75
5ppm	5	9.13±	0.28	16.6±	0.6	46.8±	1.3	51.3±	0.3	18.2±	0.2	35.5±	0.3	910±	18
10ppm	5	9.33±	0.32	16.9±	0.6	47.8±	1.5	51.2±	0.3	18.1±	0.1	35.3±	0.2	940±	72
20ppm	5	9.35±	0.24	16.8±	0.4	47.7±	1.2	51.1±	0.2	18.0±	0.2	35.2±	0.3	871±	82
40ppm	5	9.25±	0.14	16.7±	0.2	47.3±	0.7	51.1±	0.4	18.0±	0.1	35.3±	0.2	793±	48
80ppm	4	9.79±	0.13**	17.5±	0.3	50.2±	1.0**	51.3±	0.5	17.8±	0.1	34.8±	0.3	770±	39

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0757

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (3W)

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %	
Control	5	1.6±	0.3
5ppm	5	1.4±	0.1
10ppm	5	1.4±	0.2
20ppm	5	1.5±	0.1
40ppm	5	1.5±	0.3
80ppm	4	1.2±	0.3

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

PAGE : 6

Group Name	NO. of Animals	WBC 10 ⁹ /μl		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
				NEUTRO		LYMPHO									
Control	5	4.77±	1.17	18±	3	78±	3	2±	1	1±	0	0±	0	1±	0
5ppm	5	4.81±	2.17	17±	2	79±	2	2±	1	1±	0	0±	0	1±	0
10ppm	5	4.81±	1.65	14±	4	82±	4	2±	0	1±	0	0±	0	1±	0
20ppm	5	5.20±	1.78	14±	2	82±	3	2±	0	1±	0	0±	0	1±	0
40ppm	5	5.83±	1.98	20±	3	76±	4	2±	1	1±	0	0±	0	1±	0
80ppm	4	3.88±	0.18	34±	6**	60±	6**	4±	1**	1±	0	0±	0	1±	1

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (3W)

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	5	6.0±	0.2	3.4±	0.1	1.3±	0.1	0.09±	0.00	153±	18	48±	1	24±	6
5ppm	5	6.1±	0.1	3.5±	0.1	1.4±	0.1	0.09±	0.00	165±	12	49±	4	37±	7*
10ppm	5	6.0±	0.1	3.4±	0.1	1.3±	0.1	0.09±	0.01	170±	21	49±	4	38±	5*
20ppm	5	5.9±	0.1	3.4±	0.1	1.4±	0.1	0.09±	0.01	166±	12	51±	2	35±	6
40ppm	5	5.9±	0.2	3.4±	0.1	1.4±	0.1	0.09±	0.00	165±	16	56±	4**	38±	9*
80ppm	2	6.0±	0.2 ?	3.2±	0.0 ?	1.2±	0.1 ?	0.10±	0.01 ?	173±	2 ?	78±	0 ?	20±	3 ?

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

Test of Dunnett

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

STUDY NO. : 0757

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (3W)

PAGE : 2

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	92±	5	72±	3	34±	2	82±	26	1111±	77	1±	1	202±	31
5ppm	5	98±	5	72±	4	33±	2	87±	33	1151±	55	0±	1	237±	81
10ppm	5	94±	5	70±	4	34±	3	91±	45	1094±	40	1±	1	208±	29
20ppm	5	98±	4	71±	2	33±	2	91±	49	1073±	18	1±	0	211±	19
40ppm	5	108±	6**	74±	4	35±	5	91±	44	981±	117*	0±	1	202±	6
80ppm	2	129±	6 ?	72±	3 ?	39±	4 ?	108±	41 ?	779±	28 ?	1±	0 ?	189±	1 ?

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

Test of Dunnett

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

(HCL074)

BAIS 4

STUDY NO. : 0757

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (3W)

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	5	16.0±	1.4	0.5±	0.1	142±	0	3.3±	0.2	105±	0	10.3±	0.1	7.7±	0.8
5ppm	5	17.8±	1.3	0.5±	0.0	142±	1	3.1±	0.1	105±	1	10.4±	0.3	8.1±	0.6
10ppm	5	17.5±	0.8	0.5±	0.0	143±	1	3.4±	0.1	105±	1	10.3±	0.2	8.0±	0.7
20ppm	5	17.3±	1.6	0.5±	0.0	142±	1	3.4±	0.1	106±	1	10.1±	0.1	7.7±	0.5
40ppm	5	16.5±	1.5	0.5±	0.0	142±	1	3.6±	0.2	105±	1	10.3±	0.2	8.1±	1.1
80ppm	2	20.9±	2.4 ?	0.5±	0.0 ?	141±	0 ?	3.7±	0.1 ?	105±	1 ?	10.6±	0.1 ?	8.3±	0.8 ?

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

Test of Dunnett

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

(HCL074)

BAIS 4

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (3W)

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	5	5.8±	0.2	3.5±	0.0	1.5±	0.0	0.09±	0.01	133±	14	61±	6	16±	6
5ppm	5	5.8±	0.1	3.4±	0.1	1.5±	0.0	0.10±	0.01	131±	13	66±	6	13±	2
10ppm	5	5.9±	0.1	3.5±	0.1	1.5±	0.0	0.09±	0.01	136±	16	63±	2	12±	4
20ppm	5	5.9±	0.2	3.5±	0.1	1.5±	0.0	0.09±	0.00	143±	15	66±	4	15±	5
40ppm	5	5.8±	0.1	3.3±	0.1**	1.3±	0.1	0.09±	0.00	135±	14	70±	5	18±	3
80ppm	4	5.9±	0.2	3.2±	0.1**	1.2±	0.0	0.10±	0.01	159±	11	68±	7	20±	2

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 MEASURE. TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (3W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST I U / l		ALT I U / l		LDH I U / l		ALP I U / l		G-GTP I U / l		CK I U / l	
Control	5	119±	9	72±	4	32±	2	76±	12	932±	26	1±	1	174±	15
5ppm	5	125±	13	72±	4	30±	1	104±	57	894±	40	1±	0	187±	24
10ppm	5	118±	7	74±	2	31±	2	97±	50	912±	45	1±	0	197±	30
20ppm	5	127±	8	69±	3	30±	2	108±	64	898±	42	1±	0	198±	27
40ppm	5	134±	8	74±	2	31±	2	81±	22	950±	49	1±	0	184±	28
80ppm	4	126±	8	87±	9**	56±	14	102±	37	796±	39**	2±	1	189±	19

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0757

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (3W)

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	5	18.6±	1.9	0.5±	0.0	141±	1	3.4±	0.1	106±	2	10.0±	0.2	7.0±	1.2
5ppm	5	19.1±	2.0	0.5±	0.0	141±	1	3.5±	0.2	106±	2	10.0±	0.2	7.2±	0.8
10ppm	5	19.2±	1.3	0.5±	0.0	142±	1	3.3±	0.2	106±	1	10.0±	0.1	6.9±	0.7
20ppm	5	20.2±	1.2	0.5±	0.0	141±	1	3.5±	0.1	105±	1	10.2±	0.3	7.3±	0.6
40ppm	5	16.6±	1.6	0.5±	0.0	141±	0	3.5±	0.2	106±	1	10.0±	0.5	6.9±	1.2
80ppm	4	17.5±	2.3	0.5±	0.1	139±	2*	3.6±	0.2	101±	2**	10.5±	0.3	8.1±	0.6

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

Test of Dunnett

(HCL074)

BAIS 4

TABLE H1

GROSS FINDINGS : MALE

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control	5ppm	10ppm	20ppm
			5 (%)	5 (%)	5 (%)	5 (%)
lung	red zone		0 (0)	0 (0)	0 (0)	0 (0)
thymus	atrophic		0 (0)	0 (0)	0 (0)	0 (0)
liver	herniation		0 (0)	0 (0)	0 (0)	0 (0)

(HPT080)

BAIS 4

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	40ppm		80ppm	
			5	(%)	5	(%)
lung	red zone		0	(0)	1	(20)
thymus	atrophic		0	(0)	5	(100)
liver	herniation		0	(0)	1	(20)

(HPT080)

BAIS 4

TABLE H2

GROSS FINDINGS : FEMALE

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		5ppm		10ppm		20ppm	
			5	(%)	5	(%)	5	(%)	5	(%)
thymus	atrophic		0	(0)	0	(0)	0	(0)	0	(0)
liver	herniation		1	(20)	0	(0)	0	(0)	0	(0)

(HPT080)

BAIS 4

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 4

Organ	Findings	Group Name NO. of Animals	40ppm		80ppm	
			5	(%)	5	(%)
thymus	atrophic		0	(0)	5	(100)
liver	herniation		0	(0)	0	(0)

(HPT080)

BAIS 4

TABLE I1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

PAGE : 1

Group Name	NO. of Animals	Body Weight		THYMUS		ADRENALS		TESTES		HEART		LUNGS	
Control	5	155±	5	0.262±	0.028	0.043±	0.002	2.407±	0.092	0.625±	0.036	0.667±	0.012
5ppm	5	155±	9	0.255±	0.056	0.043±	0.001	2.439±	0.114	0.611±	0.060	0.690±	0.041
10ppm	5	155±	6	0.241±	0.042	0.045±	0.003	2.387±	0.076	0.629±	0.033	0.689±	0.019
20ppm	5	150±	3	0.245±	0.025	0.040±	0.002	2.419±	0.096	0.602±	0.017	0.685±	0.033
40ppm	5	125±	6**	0.169±	0.015**	0.043±	0.003	2.326±	0.094	0.532±	0.029**	0.618±	0.017*
80ppm	2	94±	0 ?	0.059±	0.001 ?	0.046±	0.003 ?	1.936±	0.144 ?	0.501±	0.010 ?	0.631±	0.060 ?

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

Test of Dunnett

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

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

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

PAGE : 2

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	5	1.231±	0.048	0.362±	0.008	4.667±	0.232	1.693±	0.068
5ppm	5	1.238±	0.095	0.376±	0.033	4.777±	0.426	1.701±	0.044
10ppm	5	1.254±	0.037	0.378±	0.027	4.742±	0.225	1.704±	0.041
20ppm	5	1.252±	0.024	0.371±	0.011	4.640±	0.109	1.691±	0.024
40ppm	5	1.130±	0.025*	0.309±	0.011*	3.841±	0.232**	1.635±	0.060
80ppm	2	1.057±	0.031 ?	0.202±	0.003 ?	3.482±	0.305 ?	1.591±	0.031 ?

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

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

TABLE I2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

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

PAGE : 3

Group Name	NO. of Animals	Body Weight		THYMUS		ADRENALS		OVARIES		HEART		LUNGS	
Control	5	113±	5	0.223±	0.008	0.048±	0.005	0.089±	0.010	0.494±	0.028	0.585±	0.035
5ppm	5	111±	1	0.216±	0.020	0.046±	0.004	0.082±	0.011	0.485±	0.029	0.563±	0.027
10ppm	5	111±	4	0.218±	0.019	0.046±	0.002	0.080±	0.009	0.473±	0.032	0.557±	0.021
20ppm	5	105±	5*	0.222±	0.021	0.051±	0.002	0.086±	0.010	0.496±	0.033	0.577±	0.026
40ppm	5	96±	4**	0.173±	0.008**	0.050±	0.002	0.078±	0.009	0.451±	0.021	0.539±	0.015
80ppm	4	74±	1**	0.057±	0.009**	0.048±	0.003	0.059±	0.009**	0.402±	0.035**	0.575±	0.033

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

Test of Dunnett

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

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

PAGE : 4

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	5	0.971±	0.035	0.294±	0.025	3.478±	0.172	1.619±	0.024
5ppm	5	0.963±	0.025	0.288±	0.017	3.344±	0.139	1.614±	0.051
10ppm	5	0.966±	0.041	0.291±	0.015	3.361±	0.265	1.597±	0.039
20ppm	5	0.962±	0.030	0.281±	0.020	3.271±	0.168	1.611±	0.045
40ppm	5	0.935±	0.033	0.262±	0.021	3.003±	0.184**	1.598±	0.038
80ppm	4	0.870±	0.038**	0.156±	0.010**	2.908±	0.076**	1.510±	0.010**

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

Test of Dunnett

(HCL040)

BAIS 4

TABLE J1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	155± 5	0.169± 0.017	0.028± 0.001	1.555± 0.035	0.404± 0.020	0.431± 0.011
5ppm	5	155± 9	0.164± 0.027	0.028± 0.001	1.580± 0.072	0.394± 0.018	0.446± 0.008
10ppm	5	155± 6	0.155± 0.024	0.029± 0.002	1.539± 0.047	0.406± 0.022	0.444± 0.006
20ppm	5	150± 3	0.163± 0.016	0.027± 0.002	1.613± 0.064	0.401± 0.016	0.456± 0.018**
40ppm	5	125± 6**	0.135± 0.014	0.034± 0.003**	1.864± 0.038**	0.427± 0.024	0.496± 0.026**
80ppm	2	94± 0 ?	0.063± 0.001 ?	0.049± 0.003 ?	2.060± 0.153 ?	0.533± 0.010 ?	0.671± 0.064 ?

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

Test of Dunnett

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

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

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

PAGE : 2

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.795± 0.018	0.234± 0.007	3.014± 0.076	1.094± 0.048
5ppm	5	0.800± 0.027	0.243± 0.007	3.086± 0.105	1.103± 0.060
10ppm	5	0.808± 0.010	0.243± 0.017	3.055± 0.041	1.098± 0.032
20ppm	5	0.835± 0.017	0.247± 0.007	3.093± 0.063	1.128± 0.031
40ppm	5	0.907± 0.040**	0.248± 0.012	3.077± 0.065	1.313± 0.080**
80ppm	2	1.125± 0.033 ?	0.215± 0.003 ?	3.704± 0.325 ?	1.693± 0.033 ?

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

Test of Dunnett

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

TABLE J2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	113± 5	0.198± 0.008	0.043± 0.004	0.079± 0.009	0.438± 0.018	0.519± 0.028
5ppm	5	111± 1	0.196± 0.017	0.042± 0.003	0.074± 0.010	0.438± 0.028	0.509± 0.024
10ppm	5	111± 4	0.197± 0.019	0.042± 0.002	0.072± 0.008	0.427± 0.020	0.503± 0.008
20ppm	5	105± 5*	0.210± 0.015	0.049± 0.004	0.082± 0.009	0.471± 0.035	0.548± 0.027
40ppm	5	96± 4**	0.181± 0.006	0.052± 0.003**	0.082± 0.008	0.471± 0.022	0.562± 0.018*
80ppm	4	74± 1**	0.078± 0.013**	0.065± 0.006**	0.080± 0.012	0.547± 0.050**	0.783± 0.055**

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

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

PAGE : 4

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.861± 0.025	0.260± 0.018	3.085± 0.144	1.437± 0.067
5ppm	5	0.871± 0.024	0.260± 0.014	3.023± 0.115	1.460± 0.037
10ppm	5	0.872± 0.028	0.262± 0.006	3.030± 0.131	1.442± 0.044
20ppm	5	0.913± 0.023*	0.267± 0.010	3.104± 0.096	1.530± 0.051*
40ppm	5	0.977± 0.018**	0.273± 0.018	3.135± 0.142	1.670± 0.067**
80ppm	4	1.185± 0.054**	0.212± 0.016**	3.957± 0.078**	2.055± 0.048**

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

Test of Dunnett

(HCL042)

BAIS 4

TABLE K1

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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 3W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study				Control				5ppm				10ppm				20ppm			
		Grade				5				5				5				5			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																					
nasal cavit		< 5>				< 5>				< 5>				< 5>				< 5>			
	disarrangement: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)
	squamous cell metaplasia:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	hyperplasia:transitional epithelium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammtry infiltration:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(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)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	atrophy:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(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)	(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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 3W)

PAGE : 2

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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 3W)

PAGE : 3

Organ	Findings	Group Name	Control				5ppm				10ppm				20ppm			
		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	necrosis:respiratory epithelium		< 5>				< 5>				< 5>				< 5>			
		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)	(0)	
nasopharynx	necrosis:epithelium		< 5>				< 5>				< 5>				< 5>			
		0	0	0	0	0	0	0	0	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	inflammatory infiltration		< 5>				< 5>				< 5>				< 5>			
		0	0	0	0	0	0	0	0	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		< 5>				< 5>				< 5>				< 5>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	atrophy:epithelium		< 5>				< 5>				< 5>				< 5>			
		0	0	0	0	0	0	0	0	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		< 5>				< 5>				< 5>				< 5>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
trachea	inflammatory infiltration		< 5>				< 5>				< 5>				< 5>			
		0	0	0	0	0	0	0	0	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																	

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 3W)

PAGE : 4

		40ppm				80ppm				
		No. of Animals on Study				5				
		Grade				5				
Organ	Findings	1	2	3	4	1	2	3	4	
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Respiratory system}										
nasal cavit		< 5>				< 5>				
	necrosis:respiratory epithelium	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	
nasopharynx		< 5>				< 5>				
	necrosis:epithelium	0 (0)	0 (0)	0 (0)	0 (0)	2 (40)	0 (0)	0 (0)	0 (0)	
larynx		< 5>				< 5>				
	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	1 (20)	1 (20)	1 (20)	0 (0)	
	squamous cell metaplasia	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (80)	0 (0)	
	atrophy:epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (20)	0 (0)	
	necrosis:epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (20)	0 (0)	0 (0)	
		< 5>				< 5>				
	trachea		< 5>				< 5>			
	inflammatory infiltration	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 : Number of animals with lesion
 (c) c : b / a * 100

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 3W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control				5ppm				10ppm				20ppm			
			5				5				5				5			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
trachea	necrosis:epithelium		< 5>				< 5>				< 5>				< 5>			
			0	0	0	0	0	0	0	0	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	inflammatory infiltration		< 5>				< 5>				< 5>				< 5>			
			0	0	0	0	0	0	0	0	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)
	necrosis:epithelium, bronchus		0	0	0	0	0	0	0	0	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	herniation		< 5>				< 5>				< 5>				< 5>			
			0	0	0	0	0	0	0	0	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	keratitis		< 5>				< 5>				< 5>				< 5>			
			0	0	0	0	0	0	0	0	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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 3W)

PAGE : 6

		40ppm				80ppm			
		5				5			
		No. of Animals on Study							
		Grade							
Organ	Findings	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)									
trachea		< 5>				< 5>			
	necrosis:epithelium	0	0	0	0	0	3	0	0
		(0)	(0)	(0)	(0)	(0)	(60)	(0)	(0)
lung		< 5>				< 5>			
	inflammatory infiltration	0	0	0	0	1	2	0	0
		(0)	(0)	(0)	(0)	(20)	(40)	(0)	(0)
	granulomatous inflammation	0	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	necrosis:epithelium, bronchus	0	0	0	0	0	0	3	0
		(0)	(0)	(0)	(0)	(0)	(0)	(60)	(0)
(Digestive system)									
liver		< 5>				< 5>			
	herniation	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
(Special sense organs/appendage)									
eye		< 5>				< 5>			
	keratitis	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(20)	(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

TABLE K2

**HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE
DEAD AND MORIBUND ANIMALS**

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 1

Organ	Findings	Group Name	Control				5ppm				10ppm				20ppm			
		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>			
	squamous cell metaplasia:respiratory epithelium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	ulcer:respiratory epithelium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	inflammntory infiltration:respiratory epithelium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	
atrophy:olfactory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	atrophy:respiratory epithelium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:respiratory epithelium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
larynx			< 0>				< 0>				< 0>				< 0>			
	inflammatory infiltration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
squamous cell metaplasia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 2

Organ_____	Findings_____	Group Name	40ppm				80ppm			
		No. of Animals on Study	0				3			
		Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Respiratory system}										
nasal cavit		< 0>				< 3>				
	squamous cell metaplasia:respiratory epithelium	-	-	-	-	2	0	0	0	
		(-)	(-)	(-)	(-)	(67)	(0)	(0)	(0)	
	ulcer:respiratory epithelium	-	-	-	-	0	3	0	0	
		(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)	
	inflammtoary infiltration:respiratory epithelium	-	-	-	-	0	3	0	0	
		(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)	
	atrophy:olfactory epithelium	-	-	-	-	0	3	0	0	
		(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)	
	atrophy:respiratory epithelium	-	-	-	-	3	0	0	0	
		(-)	(-)	(-)	(-)	(100)	(0)	(0)	(0)	
	necrosis:respiratory epithelium	-	-	-	-	0	3	0	0	
		(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)	
larynx		< 0>				< 3>				
	inflammatory infiltration	-	-	-	-	1	1	1	0	
		(-)	(-)	(-)	(-)	(33)	(33)	(33)	(0)	
	squamous cell metaplasia	-	-	-	-	0	0	2	0	
		(-)	(-)	(-)	(-)	(0)	(0)	(67)	(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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control				5ppm				10ppm				20ppm			
			0				0				0				0			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
larynx			< 0>				< 0>				< 0>				< 0>			
	atrophy:epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
trachea			< 0>				< 0>				< 0>				< 0>			
	necrosis:epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
lung			< 0>				< 0>				< 0>				< 0>			
	inflammatory infiltration		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:epithelium, bronchus		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
{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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

		Group Name	40ppm				80ppm			
		No. of Animals on Study	0				3			
Organ	Findings	Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
larynx			< 0>				< 3>			
	atrophy:epithelium		-	-	-	-	0	0	1	0
			(-)	(-)	(-)	(-)	(0)	(0)	(33)	(0)
	necrosis:epithelium		-	-	-	-	0	1	0	0
			(-)	(-)	(-)	(-)	(0)	(33)	(0)	(0)
trachea			< 0>				< 3>			
	necrosis:epithelium		-	-	-	-	0	3	0	0
			(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)
lung			< 0>				< 3>			
	inflammatory infiltration		-	-	-	-	1	2	0	0
			(-)	(-)	(-)	(-)	(33)	(67)	(0)	(0)
	necrosis:epithelium, bronchus		-	-	-	-	0	0	3	0
			(-)	(-)	(-)	(-)	(0)	(0)	(100)	(0)
{Special sense organs/appendage}										
eye			< 0>				< 3>			
	keratitis		-	-	-	-	1	0	0	0
			(-)	(-)	(-)	(-)	(33)	(0)	(0)	(0)

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

TABLE K3

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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (3W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study Grade	Control 5				5ppm 5				10ppm 5				20ppm 5			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	disarrangement: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)
	squamous cell metaplasia:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:respiratory epithelium		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)
	hyperplasia:transitional epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammntory infiltration:respiratory epithelium		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)	(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)
	atrophy:respiratory epithelium		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)	(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)

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

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (3W)

PAGE : 2

		Group Name	40ppm				80ppm			
		No. of Animals on Study	5				2			
Organ	Findings	Grade	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}										
nasal cavit			< 5>				< 2>			
	disarrangement:olfactory epithelium		4	0	0	0	2	0	0	0
			(80)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	squamous cell metaplasia:respiratory epithelium		1	4	0	0	1	0	0	0
			(20)	(80)	(0)	(0)	(50)	(0)	(0)	(0)
	ulcer:respiratory epithelium		4	0	0	0	0	2	0	0
			(80)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	hyperplasia:transitional epithelium		1	0	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration:respiratory epithelium		0	5	0	0	0	2	0	0
			(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)
	atrophy:olfactory epithelium		5	0	0	0	0	2	0	0
			(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	atrophy:respiratory epithelium		5	0	0	0	2	0	0	0
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	necrosis:olfactory epithelium		1	0	0	0	1	0	0	0
			(20)	(0)	(0)	(0)	(50)	(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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (3W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control				5ppm				10ppm				20ppm			
			5				5				5				5			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	necrosis:respiratory epithelium		< 5>				< 5>				< 5>				< 5>			
			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)	(0)
nasopharynx	necrosis:epithelium		< 5>				< 5>				< 5>				< 5>			
			0	0	0	0	0	0	0	0	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	squamous cell metaplasia		< 5>				< 5>				< 5>				< 5>			
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
trachea	inflammatory infiltration		< 5>				< 5>				< 5>				< 5>			
			0	0	0	0	0	0	0	0	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	granulomatous inflammation		< 5>				< 5>				< 5>				< 5>			
			0	0	0	0	0	0	0	0	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	herniation		< 5>				< 5>				< 5>				< 5>			
			0	0	0	0	0	0	0	0	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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (3W)

PAGE : 4

Organ	Findings	Group Name		40ppm				80ppm			
		No. of Animals on Study		5				2			
		Grade		1	2	3	4	1	2	3	4
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}											
nasal cavit				< 5>				< 2>			
	necrosis:respiratory epithelium			5	0	0	0	0	2	0	0
				(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
nasopharynx				< 5>				< 2>			
	necrosis:epithelium			0	0	0	0	2	0	0	0
				(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
larynx				< 5>				< 2>			
	squamous cell metaplasia			0	0	0	0	0	0	2	0
				(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)
trachea				< 5>				< 2>			
	inflammatory infiltration			0	0	0	0	1	0	0	0
				(0)	(0)	(0)	(0)	(50)	(0)	(0)	(0)
lung				< 5>				< 2>			
	granulomatous inflammation			0	0	0	0	2	0	0	0
				(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
{Digestive system}											
liver				< 5>				< 2>			
	herniation			0	0	0	0	1	0	0	0
				(0)	(0)	(0)	(0)	(50)	(0)	(0)	(0)

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

TABLE K4

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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 3W)

PAGE : 7

Organ	Findings	Group Name	Control				5ppm				10ppm				20ppm			
		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

disarrangement:olfactory epithelium

< 5>

0000

(0) (0) (0) (0)

< 5>

0000

(0) (0) (0) (0)

< 5>

0000

(0) (0) (0) (0)

< 5>

0000

(0) (0) (0) (0)

squamous cell metaplasia:respiratory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

ulcer:respiratory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

2000

(40) (0) (0) (0)

inflammtoary infiltration:respiratory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

5000

(100) (0) (0) (0)

atrophy:olfactory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

atrophy:respiratory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

5000

(100) (0) (0) (0)

necrosis:respiratory epithelium

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

0000

(0) (0) (0) (0)

5000

(100) (0) (0) (0)

nasopharynx

necrosis:epithelium

< 5>

0000

(0) (0) (0) (0)

< 5>

0000

(0) (0) (0) (0)

< 5>

0000

(0) (0) (0) (0)

< 5>

0000

(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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 3W)

PAGE : 8

		40ppm				80ppm			
		5				5			
Group Name	No. of Animals on Study								
Grade		1	2	3	4	1	2	3	4
Organ_____	Findings_____	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>									
{Respiratory system}									
nasal cavit									
		< 5>				< 5>			
	disarrangement:olfactory epithelium	1	0	0	0	5	0	0	0
		(20)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	squamous cell metaplasia:respiratory epithelium	3	2	0	0	0	0	0	0
		(60)	(40)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:respiratory epithelium	5	0	0	0	0	5	0	0
		(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	inflammotry infiltration:respiratory epithelium	1	4	0	0	0	5	0	0
		(20)	(80)	(0)	(0)	(0)	(100)	(0)	(0)
	atrophy:olfactory epithelium	5	0	0	0	5	0	0	0
		(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	atrophy:respiratory epithelium	5	0	0	0	5	0	0	0
		(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	necrosis:respiratory epithelium	5	0	0	0	0	5	0	0
		(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
nasopharynx									
		< 5>				< 5>			
	necrosis:epithelium	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(20)	(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

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 3W)

PAGE : 9

		Group Name	Control				5ppm				10ppm				20ppm			
		No. of Animals on Study	5				5				5				5			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
larynx			< 5>				< 5>				< 5>				< 5>			
	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)
	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)
trachea			< 5>				< 5>				< 5>				< 5>			
	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>			
	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)
	necrosis:epithelium, bronchus		0	0	0	0	0	0	0	0	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		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(20)	(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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 3W)

PAGE : 10

		40ppm				80ppm			
		No. of Animals on Study				5			
Organ	Findings	Grade				Grade			
		1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}									
larynx		< 5>				< 5>			
	squamous cell metaplasia	0	0	0	0	0	0	2	0
		(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)
	necrosis:epithelium	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)
trachea		< 5>				< 5>			
	necrosis:epithelium	0	0	0	0	0	0	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)
lung		< 5>				< 5>			
	inflammatory infiltration	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)
	granulomatous inflammation	0	0	0	0	4	0	0	0
		(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	necrosis:epithelium, bronchus	0	0	0	0	0	0	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(20)	(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 : Number of animals with lesion
 (c) c : b / a * 100

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 3W)

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control				5ppm				10ppm				20ppm			
			5				5				5				5			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

eye	keratitis	< 5>				< 5>				< 5>				< 5>			
		0	0	0	0	0	0	0	0	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

(HPT150)

BAIS4

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
ALL ANIMALS (0- 3W)

PAGE : 12

		Group Name				40ppm				80ppm			
		No. of Animals on Study				5				5			
		Grade											
Organ_____	Findings_____												
		1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Special sense organs/appendage}

eye	keratitis	< 5>				< 5>			
		0	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(60)	(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

(HPT150)

BAIS4

TABLE K5

**HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : FEMALE
DEAD AND MORIBUND ANIMALS**

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control				5ppm				10ppm				20ppm			
			0				0				0				0			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
nasal cavit			< 0>				< 0>				< 0>				< 0>			
	disarrangement:olfactory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	ulcer:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	inflammntory infiltration:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	atrophy:olfactory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	atrophy:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
larynx			< 0>				< 0>				< 0>				< 0>			
	necrosis:epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
trachea			< 0>				< 0>				< 0>				< 0>			
	necrosis: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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 6

Organ	Findings	Group Name		40ppm				80ppm			
		No. of Animals on Study		0				1			
		Grade		1	2	3	4	1	2	3	4
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)											
nasal cavit		< 0>				< 1>					
	disarrangement:olfactory epithelium	-	-	-	-	1	0	0	0		
		(-)	(-)	(-)	(-)	(100)	(0)	(0)	(0)		
	ulcer:respiratory epithelium	-	-	-	-	0	1	0	0		
		(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)		
	inflammntory infiltration:respiratory epithelium	-	-	-	-	0	1	0	0		
		(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)		
	atrophy:olfactory epithelium	-	-	-	-	1	0	0	0		
		(-)	(-)	(-)	(-)	(100)	(0)	(0)	(0)		
	atrophy:respiratory epithelium	-	-	-	-	1	0	0	0		
		(-)	(-)	(-)	(-)	(100)	(0)	(0)	(0)		
	necrosis:respiratory epithelium	-	-	-	-	0	1	0	0		
		(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)		
larynx		< 0>				< 1>					
	necrosis:epithelium	-	-	-	-	0	1	0	0		
		(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)		
trachea		< 0>				< 1>					
	necrosis:epithelium	-	-	-	-	0	0	1	0		
		(-)	(-)	(-)	(-)	(0)	(0)	(100)	(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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 7

Organ	Findings	Group Name				Control				5ppm				10ppm				20ppm			
		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)																					
lung		< 0>				< 0>				< 0>				< 0>				< 0>			
	inflammatory infiltration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:epithelium, bronchus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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

(HPT150)

BAIS4

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

[illegible]

lung		< 0>		< 1>
	inflammatory infiltration	- - - -	0 1 0 0	
		(-) (-) (-) (-)	(0) (100) (0) (0)	
	necrosis:epithelium, bronchus	- - - -	0 0 1 0	
		(-) (-) (-) (-)	(0) (0) (100) (0)	

(HPT150) BAIS4

TABLE K6

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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (3W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade	Control				5ppm				10ppm				20ppm			
			5				5				5				5			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	disarrangement: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)
	squamous cell metaplasia:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ulcer:respiratory epithelium		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)
	inflammatory infiltration:respiratory epithelium		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)	(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)
	atrophy:respiratory epithelium		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)	(0)
	necrosis:respiratory epithelium		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)	(0)
nasopharynx			< 5>				< 5>				< 5>				< 5>			
	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)

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

STUDY NO. : 0757
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (3W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study				40ppm				80ppm			
		Grade				5				4			
		1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)													
nasal cavit		< 5>				< 4>							
	disarrangement:olfactory epithelium	1	0	0	0	4	0	0	0				
		(20)	(0)	(0)	(0)	(100)	(0)	(0)	(0)				
	squamous cell metaplasia:respiratory epithelium	3	2	0	0	0	0	0	0				
		(60)	(40)	(0)	(0)	(0)	(0)	(0)	(0)				
	ulcer:respiratory epithelium	5	0	0	0	0	4	0	0				
		(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)				
	inflammtoary infiltration:respiratory epithelium	1	4	0	0	0	4	0	0				
		(20)	(80)	(0)	(0)	(0)	(100)	(0)	(0)				
	atrophy:olfactory epithelium	5	0	0	0	4	0	0	0				
		(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)				
	atrophy:respiratory epithelium	5	0	0	0	4	0	0	0				
		(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)				
	necrosis:respiratory epithelium	5	0	0	0	0	4	0	0				
		(100)	(0)	(0)	(0)	(0)	(100)	(0)	(0)				
nasopharynx		< 5>				< 4>							
	necrosis:epithelium	0	0	0	0	1	0	0	0				
		(0)	(0)	(0)	(0)	(25)	(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

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (3W)

PAGE : 7

		Group Name	Control				5ppm				10ppm				20ppm			
		No. of Animals on Study	5				5				5				5			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
larynx			< 5>				< 5>				< 5>				< 5>			
	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>			
	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)
{Digestive system}																		
liver			< 5>				< 5>				< 5>				< 5>			
	herniation		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(20)	(0)	(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																	

STUDY NO. : 0757
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (3W)

PAGE : 8

Organ	Findings	Group Name		40ppm				80ppm			
		No. of Animals on Study		5				4			
		Grade		1	2	3	4	1	2	3	4
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}											
larynx		< 5>				< 4>					
	squamous cell metaplasia	0	0	0	0	0	0	0	0	2	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(50)	(0)
lung		< 5>				< 4>					
	granulomatous inflammation	0	0	0	0	4	0	0	0	0	0
		(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(0)	(0)
{Digestive system}											
liver		< 5>				< 4>					
	herniation	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		< 5>				< 4>					
	keratitis	0	0	0	0	3	0	0	0	0	0
		(0)	(0)	(0)	(0)	(75)	(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