

アリルアルコー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：0885

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TABLE A

**CONCENTRATIONS OF ALLYL ALCOHOL
IN THE INHALATION CHAMBER OF
THE 2-WEEK INHALATION STUDY**

CONCENTRATIONS OF ALLYL ALCOHOL IN THE INHALATION
CHAMBER OF THE 2-WEEK INHALATION STUDY

Group Name	Concentration(ppm)
	Mean $\pm$ S.D.
Control	0.0 $\pm$ 0.0
6.3 ppm	6.3 $\pm$ 0.0
12.5 ppm	12.5 $\pm$ 0.1
25 ppm	25.1 $\pm$ 0.1
50 ppm	50.1 $\pm$ 0.1
100 ppm	100.4 $\pm$ 0.3

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0885

ANIMAL : RAT F344/DuCrI CrIj[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	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
6.3ppm	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
12.5ppm	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
25ppm	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
50ppm	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
100ppm	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. : 0885

ANIMAL : RAT F344/DuCrI CrIj [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
6.3ppm	5	5/ 5 100.0
12.5ppm	5	5/ 5 100.0
25ppm	5	5/ 5 100.0
50ppm	5	5/ 5 100.0
100ppm	5	5/ 5 100.0
Number of survival/ Number of effective animals Survival rate(%)		

(HAN360)

BA1S5

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0885

ANIMAL : RAT F344/DuCrI CrIj [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
6.3ppm	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
12.5ppm	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
25ppm	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
50ppm	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
100ppm	5	5/ 5 100.0	5/ 5 100.0	4/ 5 80.0	4/ 5 80.0	4/ 5 80.0	4/ 5 80.0	4/ 5 80.0	4/ 5 80.0	4/ 5 80.0	4/ 5 80.0	4/ 5 80.0	4/ 5 80.0	4/ 5 80.0	4/ 5 80.0
Number of survival/ Number of effective animals Survival rate(%)															

STUDY NO. : 0885

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCrIj[F344/DuCrj]

REPORT TYPE : A1 2

SEX : FEMALE

PAGE : 4

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
6.3ppm	5	5/ 5 100.0
12.5ppm	5	5/ 5 100.0
25ppm	5	5/ 5 100.0
50ppm	5	5/ 5 100.0
100ppm	5	4/ 5 80.0
Number of survival/ Number of effective animals Survival rate(%)		

(HAN360)

BA1S5

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0885

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													
		1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-6	1-7	1-7	2-1	2-1
		1	2	1	2	1	2	1	2	1	1	1	2	1	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	5	0	5	0	1	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	5	0	0	0	0	0	0	0	0	0
LACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	50ppm	0	3	0	3	0	0	0	0	0	0	0	0	0	0
	100ppm	0	5	0	5	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	1	0	1	0	0	0	0	0	0	0	0	0	0
	50ppm	0	4	0	2	2	0	0	0	0	0	0	0	0	0
	100ppm	0	5	0	4	3	3	0	1	0	0	0	0	0	0
DYSYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	5	0	4	0	2	0	2	0	0	0	0	0	0

STUDY NO. : 0885
 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									
		2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-7	2-7
		1	2	1	2	1	2	1	1	1	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
PILORECTION	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
LACRIMATION	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
DYSPNEA	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0885

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

PAGE : 3

Clinical sign	Group Name	Administration Week-day													
		1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-6	1-7	1-7	2-1	2-1
		1	2	1	2	1	2	1	2	1	1	1	2	1	2
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	2	0	2	0	0	0	0	0	0	0	0	0	0
	25ppm	0	5	0	4	0	1	0	0	0	0	0	0	0	0
	50ppm	0	4	0	5	0	5	5	5	1	3	0	2	1	0
	100ppm	0	0	5	5	3	5	5	4	5	5	5	5	5	5
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	4	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	5	0	5	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	6.3ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	12.5ppm	5	3	5	3	5	5	5	5	5	5	5	5	5	5
	25ppm	5	0	5	1	5	4	5	5	5	5	5	5	5	5
	50ppm	5	0	5	0	3	0	0	0	4	2	5	3	4	5
	100ppm	5	0	0	0	0	0	0	0	0	0	0	0	0	0

(HAN190)

BAIS 5

STUDY NO. : 0885

ANIMAL : RAT F344/DuCrIj[F344/DuCrj]

REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

PAGE : 4

Clinical sign	Group Name	Administration Week-day									
		2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-7	2-7
		1	2	1	2	1	2	1	1	1	2
NOISY	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	1	0	0	0	0
	12.5ppm	0	0	0	0	1	1	0	0	0	0
	25ppm	0	0	0	0	0	3	0	0	0	2
	50ppm	0	1	0	2	3	3	2	2	1	2
	100ppm	5	3	3	5	3	5	4	4	3	5
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	5	5	5	5	5	5	5	5	5	5
	6.3ppm	5	5	5	5	5	4	5	5	5	5
	12.5ppm	5	5	5	5	4	4	5	5	5	5
	25ppm	5	5	5	5	5	2	5	5	5	3
	50ppm	5	4	5	3	2	2	3	3	4	3
	100ppm	0	2	2	0	2	0	1	1	2	0

(HAN190)

BAIS5

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 5

Clinical sign	Group Name	Administration Week-day													
		1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-6	1-7	1-7	2-1	2-1
		1	2	1	2	1	2	1	2	1	1	1	2	1	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	5	0	4	0	3	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	1	0	4	4	0	0	0	0	0	0	0	0
LACRIMATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	1	0	1	0	0	0	0	0	0	0	0	0	0
	25ppm	0	2	0	3	0	0	0	0	0	0	0	0	0	0
	50ppm	0	5	0	4	0	0	0	0	0	0	0	0	0	0
	100ppm	0	5	0	4	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	4	0	4	0	0	0	0	0	0	0	0	0	0
	100ppm	0	5	1	4	1	0	0	0	0	0	0	0	0	0
DYSYPNEA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	5	1	4	0	2	0	0	0	0	0	0	0	0

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCrIGrlj[F344/DuCrj]
 REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 6

Clinical sign	Group Name	Administration Week-day									
		2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-7	2-7
		1	2	1	2	1	2	1	1	1	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	1	1	1	1	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
LACRIMATION	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
NOSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
DYSYPNEA	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0885

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE : 7

Clinical sign	Group Name	Administration Week-day													
		1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-4	1-5	1-6	1-7	1-7	2-1	2-1
		1	2	1	2	1	2	1	2	1	1	1	2	1	2
NOISY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	2	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	3	0	5	1	2	0	0	0	0	0	0	0	0
	50ppm	0	5	2	5	2	5	4	3	0	0	0	0	0	0
	100ppm	0	0	4	4	1	2	3	4	4	4	4	4	3	0
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	25ppm	0	3	0	0	0	0	0	0	0	0	0	0	0	0
	50ppm	0	5	0	0	0	0	0	0	0	0	0	0	0	0
	100ppm	0	5	0	4	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	6.3ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	12.5ppm	5	2	5	4	5	5	5	5	5	5	5	5	5	5
	25ppm	5	1	5	0	4	3	5	5	5	5	5	5	5	5
	50ppm	5	0	3	0	3	0	1	2	5	5	5	5	5	5
	100ppm	5	0	0	0	0	0	1	0	0	0	0	0	1	4

(HAN190)

BAIS 5

STUDY NO. : 0885

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 2.

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE : 8

Clinical sign	Group Name	Administration Week-day									
		2-2	2-2	2-3	2-3	2-4	2-4	2-5	2-6	2-7	2-7
		1	2	1	2	1	2	1	1	1	2
NOISY	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	1
	12.5ppm	0	0	0	0	0	2	0	0	0	0
	25ppm	0	0	0	0	1	1	0	0	0	0
	50ppm	0	0	0	1	2	2	0	0	1	2
	100ppm	3	2	1	3	2	3	0	0	0	1
SALIVATION	Control	0	0	0	0	0	0	0	0	0	0
	6.3ppm	0	0	0	0	0	0	0	0	0	0
	12.5ppm	0	0	0	0	0	0	0	0	0	0
	25ppm	0	0	0	0	0	0	0	0	0	0
	50ppm	0	0	0	0	0	0	0	0	0	0
	100ppm	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	5	5	5	5	5	5	5	5	5	5
	6.3ppm	5	5	5	5	5	5	5	5	5	4
	12.5ppm	5	5	5	5	5	3	5	5	5	5
	25ppm	5	5	5	5	4	4	5	5	5	5
	50ppm	5	5	5	4	3	3	5	5	4	3
	100ppm	1	2	3	1	2	1	4	4	4	3

(HAN190)

BAIS5

TABLE D1

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

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		6.3ppm			12.5ppm			25ppm			50ppm			100ppm		
	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.	Av. Wt.	% of cont. < 5>	No. of Surviv.
1-1	116 (5)	5/ 5	117 (5)	101	5/ 5	117 (5)	101	5/ 5	116 (5)	100	5/ 5	116 (5)	100	5/ 5	117 (5)	101	5/ 5
1-2	119 (5)	5/ 5	117 (5)	98	5/ 5	115 (5)	97	5/ 5	113 (5)	95	5/ 5	106 (5)	89	5/ 5	99 (5)	83	5/ 5
1-5	126 (5)	5/ 5	122 (5)	97	5/ 5	117 (5)	93	5/ 5	112 (5)	89	5/ 5	106 (5)	84	5/ 5	100 (5)	79	5/ 5
1-7	134 (5)	5/ 5	131 (5)	98	5/ 5	128 (5)	96	5/ 5	125 (5)	93	5/ 5	119 (5)	89	5/ 5	109 (5)	81	5/ 5
2-2	141 (5)	5/ 5	138 (5)	98	5/ 5	135 (5)	96	5/ 5	131 (5)	93	5/ 5	126 (5)	89	5/ 5	116 (5)	82	5/ 5
2-5	153 (5)	5/ 5	149 (5)	97	5/ 5	147 (5)	96	5/ 5	143 (5)	93	5/ 5	136 (5)	89	5/ 5	129 (5)	84	5/ 5
2-7	161 (5)	5/ 5	158 (5)	98	5/ 5	157 (5)	98	5/ 5	153 (5)	95	5/ 5	146 (5)	91	5/ 5	141 (5)	88	5/ 5

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

Av. Wt. : g

(B10040)

BAIS5

TABLE D2

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

STUDY NO. : 0885
 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		6.3ppm			12.5ppm			25ppm			50ppm			100ppm		
	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.	Av. Wt.	% of cont. < 5>	No. of Surviv.
1-1	92 (5)	5/ 5	91 (5)	99	5/ 5	92 (5)	100	5/ 5	92 (5)	100	5/ 5	91 (5)	99	5/ 5	91 (5)	99	5/ 5
1-2	94 (5)	5/ 5	90 (5)	96	5/ 5	90 (5)	96	5/ 5	89 (5)	95	5/ 5	85 (5)	90	5/ 5	77 (4)	82	4/ 5
1-5	98 (5)	5/ 5	91 (5)	93	5/ 5	89 (5)	91	5/ 5	87 (5)	89	5/ 5	83 (5)	85	5/ 5	77 (4)	79	4/ 5
1-7	101 (5)	5/ 5	95 (5)	94	5/ 5	96 (5)	95	5/ 5	93 (5)	92	5/ 5	90 (5)	89	5/ 5	85 (4)	84	4/ 5
2-2	104 (5)	5/ 5	98 (5)	94	5/ 5	100 (5)	96	5/ 5	94 (5)	90	5/ 5	92 (5)	88	5/ 5	90 (4)	87	4/ 5
2-5	109 (5)	5/ 5	102 (5)	94	5/ 5	105 (5)	96	5/ 5	99 (5)	91	5/ 5	98 (5)	90	5/ 5	98 (4)	90	4/ 5
2-7	114 (5)	5/ 5	108 (5)	95	5/ 5	112 (5)	98	5/ 5	103 (5)	90	5/ 5	102 (5)	89	5/ 5	103 (4)	90	4/ 5

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

Av. Wt. : g

(B10040)

BAIS 5

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0885
 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											
	1-1		1-2		1-5		1-7		2-2		2-5		2-7	
Control	116±	4	119±	4	126±	5	134±	6	141±	6	153±	8	161±	9
6. 3ppm	117±	5	117±	6	122±	6	131±	6	138±	7	149±	6	158±	6
12. 5ppm	117±	6	115±	5	117±	7*	128±	9	135±	9	147±	10	157±	11
25ppm	116±	3	113±	4*	112±	4**	125±	5*	131±	5*	143±	7	153±	6
50ppm	116±	4	106±	6**	106±	5**	119±	6**	126±	6**	136±	6**	146±	7*
100ppm	117±	3	99±	2**	100±	4**	109±	6**	116±	4**	129±	4**	141±	4**

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

Test of t

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCrIj[F344/DuCrJ]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

Group Name	Administration		week-day									
	1-1		1-2		1-5		1-7		2-2		2-5	
Control	92±	2	94±	3	98±	4	101±	4	104±	5	109±	5
6.3ppm	91±	4	90±	3	91±	3*	95±	5	98±	4	102±	4*
12.5ppm	92±	3	90±	3	89±	3**	96±	4	100±	3	105±	4
25ppm	92±	4	89±	4	87±	3**	93±	4**	94±	4**	99±	4**
50ppm	91±	3	85±	5**	83±	3**	90±	3**	92±	3**	98±	3**
100ppm	91±	3	77±	2**	77±	2**	85±	3**	90±	4**	98±	4**

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

Test of t

TABLE E1

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

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 UNIT : g
 REPORT TYPE : A1 2
 SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		6.3ppm		12.5ppm		25ppm		50ppm		100ppm						
	Av. FC.	No. of Surviv.	Av. FC.	% of cont.	No. of Surviv.	Av. FC.	% of cont.	No. of Surviv.	Av. FC.	% of cont.	No. of Surviv.	Av. FC.	% of cont.	No. of Surviv.			
	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>	< 5>			
1-7	15.2 (5)	5/ 5	15.6 (5)	103	5/ 5	13.0 (5)	86	5/ 5	12.1 (5)	80	5/ 5	10.7 (5)	70	5/ 5	8.0 (5)	53	5/ 5
2-7	16.7 (5)	5/ 5	17.4 (5)	104	5/ 5	16.6 (5)	99	5/ 5	16.2 (5)	97	5/ 5	15.4 (5)	92	5/ 5	14.8 (5)	89	5/ 5
< >:No. of effective animals, ():No. of measured animals																	
Av. FC. : g																	

(B10040)

BAIS5

TABLE E2

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

STUDY NO. : 0885
 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		6.3ppm			12.5ppm			25ppm			50ppm			100ppm		
	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.	Av. FC.	% of cont. < 5>	No. of Surviv.
1-7	12.8 (5)	5/ 5	11.4 (5)	89	5/ 5	10.2 (5)	80	5/ 5	9.8 (5)	77	5/ 5	8.2 (5)	64	5/ 5	6.6 (4)	52	4/ 5
2-7	12.2 (5)	5/ 5	11.6 (5)	95	5/ 5	12.0 (5)	98	5/ 5	11.8 (5)	97	5/ 5	11.9 (5)	98	5/ 5	12.1 (4)	99	4/ 5
< >:No. of effective animals, ():No. of measured animals Av. FC. : g																	

(B10040)

BAIS5

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0885

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	15.2± 0.6	16.7± 0.9
6.3ppm	15.6± 1.5	17.4± 2.0
12.5ppm	13.0± 1.1**	16.6± 0.7
25ppm	12.1± 0.3**	16.2± 0.7
50ppm	10.7± 0.9**	15.4± 1.1
100ppm	8.0± 0.7**	14.8± 0.5**

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

Test of t

(HAN260)

BAIS5

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0885
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 week-day(effective)	
	1-7 (6)	2-7 (7)
Control	12.8± 0.5	12.2± 0.6
6.3ppm	11.4± 0.7**	11.6± 0.3
12.5ppm	10.2± 0.4**	12.0± 0.3
25ppm	9.8± 0.4**	11.8± 0.7
50ppm	8.2± 0.3**	11.9± 0.5
100ppm	6.6± 0.6**	12.1± 0.6

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

Test of t

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0885
 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	8.42±	0.25	15.1±	0.3	45.4±	1.0	54.0±	0.4	17.9±	0.2	33.1±	0.3	901±	56
6.3ppm	5	8.31±	0.08	14.9±	0.3	44.8±	0.6	53.9±	0.4	17.9±	0.3	33.1±	0.3	898±	46
12.5ppm	5	8.38±	0.09	15.0±	0.3	45.3±	0.7	54.0±	0.6	18.0±	0.1	33.3±	0.4	840±	79
25ppm	5	8.44±	0.24	15.1±	0.4	45.4±	1.2	53.8±	0.5	17.8±	0.1	33.2±	0.3	828±	54
50ppm	5	8.36±	0.14	14.9±	0.3	45.0±	0.5	53.8±	0.7	17.9±	0.4	33.2±	0.9	784±	28**
100ppm	5	8.41±	0.19	15.0±	0.3	45.2±	0.9	53.8±	0.6	17.8±	0.1	33.1±	0.2	795±	20**

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

Test of t

(HCL070)

BAIS5

STUDY NO. : 0885

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS (3W)

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %	
Control	5	3.2±	0.5
6.3ppm	5	3.4±	0.3
12.5ppm	5	3.3±	0.5
25ppm	5	3.4±	0.5
50ppm	5	3.4±	0.4
100ppm	5	3.7±	0.4

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of t

(HCL070)

BAIS5

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (3W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	WBC 10 ³ /μl		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
				NEUTRO		LYMPHO									
Control	5	3.04±	0.64	25.5±	5.2	70.9±	5.5	2.3±	0.5	0.8±	0.1	0.1±	0.1	0.4±	0.1
6.3ppm	5	3.21±	0.99	30.5±	6.4	65.5±	7.0	2.6±	1.0	1.0±	0.2	0.0±	0.1	0.4±	0.2
12.5ppm	5	2.91±	0.86	27.1±	3.7	69.0±	4.2	2.2±	0.5	1.0±	0.2	0.1±	0.1	0.6±	0.3
25ppm	5	3.05±	0.45	23.7±	2.6	71.8±	3.3	2.7±	0.7	1.1±	0.3	0.1±	0.1	0.7±	0.3
50ppm	5	3.05±	0.56	28.0±	6.5	67.9±	7.2	2.6±	0.8	0.9±	0.2	0.1±	0.1	0.6±	0.1*
100ppm	5	3.13±	0.31	26.2±	4.3	68.7±	4.1	3.1±	0.6	1.1±	0.1**	0.2±	0.1	0.8±	0.2**

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of t -

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0885
 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	8.57±	0.39	15.7±	0.7	45.8±	2.1	53.4±	0.6	18.3±	0.1	34.4±	0.4	819±	58
6.3ppm	5	8.90±	0.18	16.1±	0.5	47.1±	1.1	52.9±	0.5	18.1±	0.2	34.2±	0.4	747±	53
12.5ppm	5	8.67±	0.33	15.8±	0.4	46.2±	1.4	53.3±	0.5	18.2±	0.2	34.2±	0.2	792±	22
25ppm	5	8.83±	0.31	15.9±	0.6	46.9±	1.3	53.2±	0.5	18.0±	0.0**	33.8±	0.3*	709±	30**
50ppm	5	8.72±	0.22	15.8±	0.5	46.6±	0.7	53.4±	0.7	18.2±	0.2	34.0±	0.5	692±	36**
100ppm	4	8.75±	0.46	15.7±	0.9	46.3±	2.2	52.9±	0.2	17.9±	0.2**	33.9±	0.4	729±	95

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

Test of t

STUDY NO. : 0885

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	1.8±	0.3
6.3ppm	5	1.4±	0.1*
12.5ppm	5	1.8±	0.0
25ppm	5	1.4±	0.2
50ppm	5	1.6±	0.3
100ppm	4	2.0±	0.4

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of t

(HCL070)

BAIS 5

STUDY NO. : 0885

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		Differential		WBC (%)									
		10 ³ /μl		NEUTRO		LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	5	2.88±	0.44	20.2±	8.4	75.6±	8.6	2.5±	0.5	1.0±	0.3	0.1±	0.1	0.6±	0.2
6.3ppm	5	2.84±	0.78	17.8±	4.2	78.1±	4.4	2.2±	0.7	1.1±	0.3	0.1±	0.0	0.7±	0.2
12.5ppm	5	2.90±	0.79	18.6±	4.3	76.8±	4.5	2.5±	0.3	1.3±	0.3	0.1±	0.1	0.6±	0.1
25ppm	5	2.65±	0.56	21.3±	4.3	73.3±	4.2	2.8±	0.5	1.4±	0.2*	0.1±	0.1	1.0±	0.4
50ppm	5	2.68±	0.68	24.4±	4.5	70.6±	4.5	2.8±	0.4	1.5±	0.2*	0.0±	0.1	0.7±	0.2
100ppm	4	2.66±	1.02	27.2±	4.8	67.6±	5.6	2.9±	0.7	1.6±	0.5	0.1±	0.1	0.7±	0.2

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

Test of t

(HCL070)

BAIS5

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0885

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	5.7±	0.1	3.3±	0.1	1.4±	0.1	0.03±	0.01	142±	12	64±	2	39±	12
6.3ppm	5	5.7±	0.2	3.3±	0.1	1.4±	0.1	0.03±	0.00	139±	20	68±	4	50±	8
12.5ppm	5	5.6±	0.2	3.2±	0.1*	1.3±	0.1	0.03±	0.00	148±	19	71±	6*	49±	3
25ppm	5	5.6±	0.1*	3.2±	0.1	1.4±	0.0	0.03±	0.01	145±	11	70±	4*	53±	21
50ppm	5	5.6±	0.1	3.2±	0.1	1.4±	0.0	0.03±	0.00	149±	11	68±	7	40±	7
100ppm	5	5.7±	0.1	3.2±	0.1*	1.3±	0.1*	0.03±	0.01	140±	5	73±	2**	34±	11

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

Test of t

(HCL074)

BAIS5

STUDY NO. : 0885

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 U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	5	113±	4	71±	8	35±	2	111±	64	1128±	115	1.3±	0.5	230±	37
6.3ppm	5	118±	5	68±	7	33±	2	97±	37	1081±	86	1.1±	0.2	216±	25
12.5ppm	5	121±	8	66±	3	34±	5	101±	21	1049±	63	1.1±	0.1	230±	17
25ppm	5	119±	4*	66±	3	34±	2	96±	28	1085±	45	1.3±	0.3	225±	36
50ppm	5	117±	8	61±	3*	30±	2**	95±	22	1045±	25	1.1±	0.4	218±	27
100ppm	5	124±	4**	63±	2	31±	2*	108±	30	1038±	86	1.5±	0.3	221±	21

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

Test of t

(HCL074)

BAIS5

STUDY NO. : 0885

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	18.1±	2.2	0.27±	0.02	143±	2	3.9±	0.3	102±	1	10.1±	0.1	8.3±	0.4
6.3ppm	5	18.2±	1.5	0.27±	0.02	143±	1	3.8±	0.3	103±	1	10.2±	0.1	8.1±	0.8
12.5ppm	5	18.0±	1.0	0.25±	0.01	143±	1	4.0±	0.3	103±	1	10.0±	0.2	8.2±	0.6
25ppm	5	18.0±	1.6	0.25±	0.01	143±	1	3.9±	0.3	103±	1	10.1±	0.2	8.2±	0.7
50ppm	5	16.2±	1.7	0.25±	0.01	143±	1	4.0±	0.4	103±	1	10.1±	0.2	8.1±	0.7
100ppm	5	14.6±	1.7*	0.23±	0.02*	143±	1	4.2±	0.3	102±	1	10.1±	0.2	8.4±	0.7

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

Test of t

(HCL074)

BAIS5

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0885

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (3W)

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	5.5±	0.2	3.3±	0.1	1.5±	0.1	0.03±	0.01	124±	6	77±	7	21±	5
6.3ppm	5	5.5±	0.2	3.3±	0.1	1.5±	0.0	0.03±	0.01	126±	7	77±	3	20±	3
12.5ppm	5	5.4±	0.2	3.2±	0.1	1.5±	0.1	0.03±	0.01	134±	10	78±	3	22±	4
25ppm	5	5.4±	0.2	3.2±	0.2	1.5±	0.1	0.03±	0.00	124±	15	76±	1	20±	5
50ppm	5	5.4±	0.1	3.2±	0.1*	1.5±	0.0	0.03±	0.01	134±	3*	76±	4	24±	5
100ppm	4	5.5±	0.1	3.1±	0.2*	1.3±	0.1*	0.03±	0.00	117±	9	81±	5	24±	2

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

Test of t

(HCL074)

BAIS 5

STUDY NO. : 0885

ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS (3W)

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	5	132±	5	64±	4	29±	2	77±	29	853±	65	1.4±	0.3	185±	10
6.3ppm	5	138±	8	72±	4*	33±	1**	90±	48	905±	47	1.4±	0.3	198±	19
12.5ppm	5	141±	7	67±	3	31±	3	74±	34	879±	53	1.6±	0.2	197±	24
25ppm	5	136±	4	68±	3	30±	3	70±	18	855±	24	1.8±	0.3	200±	32
50ppm	5	139±	6	68±	2	29±	3	94±	29	900±	42	1.8±	0.3	197±	25
100ppm	4	147±	5**	72±	2*	31±	3	112±	36	922±	76	1.8±	0.6	216±	28*

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

Test of t

(HCL074)

BAIS 5

STUDY NO. : 0885

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	18.4±	1.2	0.27±	0.03	142±	1	3.9±	0.1	104±	1	9.9±	0.2	7.4±	0.3
6.3ppm	5	19.0±	1.9	0.26±	0.03	143±	1	3.8±	0.2	104±	1	9.7±	0.1	7.4±	0.2
12.5ppm	5	20.2±	2.0	0.26±	0.03	142±	1	4.1±	0.2	104±	2	9.8±	0.3	7.6±	0.2
25ppm	5	17.4±	1.7	0.25±	0.03	142±	1	4.0±	0.3	105±	1	9.7±	0.3	7.5±	0.2
50ppm	5	17.5±	1.4	0.24±	0.02	142±	1	4.0±	0.2	104±	1	9.5±	0.2*	7.6±	0.4
100ppm	4	15.1±	2.3*	0.22±	0.02*	142±	1	4.3±	0.2*	105±	1	9.3±	0.6	7.6±	0.2

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

Test of t

(HCL074)

BAIS5

TABLE H1

GROSS FINDINGS : FEMALE

STUDY NO. : 0885
ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrJ]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control	6.3ppm	12.5ppm	25ppm
			5 (%)	5 (%)	5 (%)	5 (%)
small intes	gas		0 (0)	0 (0)	0 (0)	0 (0)
large intes	gas		0 (0)	0 (0)	0 (0)	0 (0)
liver	herniation		1 (20)	0 (0)	0 (0)	0 (0)

(HPT080)

BAIS 5

STUDY NO. : 0885
ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 2

Organ	Findings	Group Name NO. of Animals	50ppm		100ppm	
			5	(%)	5	(%)
small intes	gas		0	(0)	1	(20)
large intes	gas		0	(0)	1	(20)
liver	herniation		0	(0)	0	(0)

(HPT080)

BAIS 5

TABLE I 1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0885
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	141±	7	0.249±	0.045	0.044±	0.005	2.325±	0.143	0.585±	0.050	0.660±	0.052
6.3ppm	5	138±	6	0.238±	0.024	0.047±	0.008	2.338±	0.159	0.578±	0.023	0.672±	0.023
12.5ppm	5	137±	10	0.235±	0.033	0.049±	0.004	2.328±	0.108	0.580±	0.049	0.671±	0.042
25ppm	5	133±	5	0.229±	0.028	0.048±	0.002	2.277±	0.072	0.574±	0.023	0.669±	0.028
50ppm	5	128±	7*	0.232±	0.018	0.052±	0.006	2.231±	0.138	0.560±	0.033	0.660±	0.051
100ppm	5	123±	4**	0.215±	0.021	0.050±	0.007	2.045±	0.095**	0.553±	0.027	0.658±	0.053

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

Test of t

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCrI CrIj [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	1.106±	0.064	0.367±	0.025	4.201±	0.298	1.699±	0.033
6.3ppm	5	1.117±	0.017	0.356±	0.030	4.223±	0.194	1.706±	0.019
12.5ppm	5	1.131±	0.075	0.363±	0.035	4.245±	0.320	1.717±	0.048
25ppm	5	1.087±	0.023	0.345±	0.023	4.107±	0.189	1.708±	0.033
50ppm	5	1.085±	0.061	0.335±	0.016*	3.968±	0.226	1.682±	0.042
100ppm	5	1.101±	0.042	0.321±	0.023*	3.865±	0.119*	1.650±	0.042

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

Test of t

TABLE I 2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0885
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	100±	4	0.232±	0.016	0.050±	0.004	0.084±	0.014	0.461±	0.023	0.544±	0.029
6.3ppm	5	95±	5	0.209±	0.020	0.044±	0.003*	0.070±	0.010	0.426±	0.013*	0.513±	0.038
12.5ppm	5	97±	4	0.220±	0.025	0.046±	0.006	0.074±	0.007	0.420±	0.022*	0.550±	0.047
25ppm	5	91±	4**	0.211±	0.023	0.047±	0.005	0.078±	0.007	0.442±	0.018	0.529±	0.021
50ppm	5	89±	2**	0.189±	0.023**	0.049±	0.005	0.075±	0.009	0.428±	0.017*	0.505±	0.018*
100ppm	4	90±	4**	0.189±	0.020**	0.054±	0.007	0.071±	0.013	0.442±	0.030	0.550±	0.058

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

Test of t

STUDY NO. : 0885
 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	0.921±	0.021	0.266±	0.012	3.254±	0.164	1.618±	0.012
6.3ppm	5	0.875±	0.031*	0.239±	0.024	2.847±	0.146**	1.566±	0.013**
12.5ppm	5	0.895±	0.055	0.262±	0.010	3.023±	0.128*	1.596±	0.034
25ppm	5	0.887±	0.050	0.240±	0.017*	2.871±	0.184**	1.583±	0.023*
50ppm	5	0.905±	0.020	0.229±	0.008**	2.833±	0.082**	1.568±	0.009**
100ppm	4	0.942±	0.044	0.229±	0.028*	2.892±	0.226*	1.555±	0.037**

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

Test of t

TABLE J1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0885
 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	141±	7	0.176± 0.025	0.031± 0.004	1.649± 0.095	0.415± 0.028	0.467± 0.022
6.3ppm	5	138±	6	0.173± 0.020	0.034± 0.006	1.696± 0.123	0.419± 0.020	0.488± 0.035
12.5ppm	5	137±	10	0.171± 0.014	0.036± 0.002	1.702± 0.049	0.423± 0.016	0.490± 0.017
25ppm	5	133±	5	0.173± 0.019	0.037± 0.002*	1.716± 0.046	0.432± 0.013	0.504± 0.010*
50ppm	5	128±	7*	0.181± 0.008	0.041± 0.004**	1.743± 0.063	0.438± 0.020	0.516± 0.029*
100ppm	5	123±	4**	0.175± 0.014	0.041± 0.005*	1.661± 0.075	0.450± 0.026	0.534± 0.036**

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

Test of t

STUDY NO. : 0885
ANIMAL : RAT F344/DuCrIj[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	0.784± 0.028	0.261± 0.017	2.974± 0.069	1.205± 0.047
6.3ppm	5	0.811± 0.037	0.258± 0.023	3.061± 0.069	1.238± 0.063
12.5ppm	5	0.826± 0.012*	0.265± 0.009	3.097± 0.029**	1.257± 0.062
25ppm	5	0.819± 0.018*	0.260± 0.014	3.092± 0.046*	1.288± 0.055*
50ppm	5	0.848± 0.021**	0.262± 0.016	3.100± 0.066*	1.316± 0.061*
100ppm	5	0.894± 0.030**	0.260± 0.014	3.138± 0.058**	1.340± 0.029**

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

Test of t

TABLE J2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0885
ANIMAL : RAT F344/DuCrI CrIj[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	100± 4	0.233± 0.014	0.050± 0.003	0.083± 0.012	0.462± 0.012	0.545± 0.022
6.3ppm	5	95± 5	0.221± 0.016	0.047± 0.003	0.074± 0.008	0.450± 0.016	0.541± 0.017
12.5ppm	5	97± 4	0.226± 0.029	0.047± 0.005	0.077± 0.008	0.431± 0.031	0.565± 0.036
25ppm	5	91± 4**	0.231± 0.023	0.052± 0.006	0.086± 0.007	0.485± 0.006**	0.580± 0.008**
50ppm	5	89± 2**	0.212± 0.027	0.055± 0.005	0.084± 0.010	0.480± 0.014	0.566± 0.011
100ppm	4	90± 4**	0.210± 0.019	0.060± 0.005*	0.078± 0.012	0.490± 0.015*	0.610± 0.042*

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

Test of t

STUDY NO. : 0885
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	0.924± 0.030	0.267± 0.009	3.260± 0.100	1.623± 0.054
6.3ppm	5	0.923± 0.029	0.252± 0.012	3.005± 0.086**	1.656± 0.089
12.5ppm	5	0.919± 0.048	0.269± 0.011	3.104± 0.050*	1.641± 0.084
25ppm	5	0.973± 0.022*	0.264± 0.009	3.147± 0.137	1.737± 0.053**
50ppm	5	1.015± 0.025**	0.257± 0.007	3.176± 0.072	1.758± 0.038**
100ppm	4	1.047± 0.030**	0.254± 0.020	3.211± 0.108	1.730± 0.051*

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

Test of t

TABLE K1

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

STUDY NO. : 0885
 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				6.3ppm				12.5ppm				25ppm			
		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>			
	inflammation:respiratory epithelium	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	5	0	0
		(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	squamous cell metaplasia:respiratory epithelium	0	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	5	0	0	0
		(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	ulcer:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	regeneration:respiratory epithelium	0	0	0	0	2	0	0	0	4	0	0	0	4	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
	regeneration:olfactory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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)
	necrosis:olfactory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	vacuolic change:olfactory epithelium	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(40)	(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 : Number of animals with lesion
 (c) c : b / a * 100

STUDY NO. : 0885
 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_____	Group Name	50ppm				100ppm				
		No. of Animals on Study	5				5				
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	
{Respiratory system}											
nasal cavit											
			< 5>				< 5>				
	inflammation:respiratory epithelium		0 (0)	3 (60)	2 (40)	0 (0)		0 (0)	3 (60)	2 (40)	0 (0)
	squamous cell metaplasia:respiratory epithelium		3 (60)	2 (40)	0 (0)	0 (0)		0 (0)	5 (100)	0 (0)	0 (0)
	ulcer:respiratory epithelium		3 (60)	0 (0)	0 (0)	0 (0)		4 (80)	0 (0)	0 (0)	0 (0)
	regeneration:respiratory epithelium		5 (100)	0 (0)	0 (0)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)
	regeneration:olfactory epithelium		2 (40)	0 (0)	0 (0)	0 (0)		5 (100)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory epithelium		1 (20)	0 (0)	0 (0)	0 (0)		3 (60)	1 (20)	0 (0)	0 (0)
	necrosis:olfactory epithelium		3 (60)	0 (0)	0 (0)	0 (0)		3 (60)	0 (0)	0 (0)	0 (0)
	vacuolic change:olfactory epithelium		4 (80)	0 (0)	0 (0)	0 (0)		3 (60)	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. : 0885
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 3

		Group Name	Control				6.3ppm				12.5ppm				25ppm			
		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}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	necrosis:respiratory epithelium		0	0	0	0	0	0	0	0	5	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	necrosis:squamous epithelium		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(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>			
	hemorrhage		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)
	granulation		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
{Digestive system}																		
liver			< 5>				< 5>				< 5>				< 5>			
	herniation		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)	(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. : 0885
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 4

		Group Name	50ppm				100ppm			
		No. of Animals on Study	5				5			
Organ_____	Findings_____	Grade	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)	3 (60)	2 (40)	0 (0)	0 (0)
	necrosis:squamous epithelium	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	4 (80)	0 (0)	0 (0)	0 (0)
larynx			< 5>				< 5>			
	inflammation	1 (20)	0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (40)	2 (40)	0 (0)	0 (0)
lung			< 5>				< 5>			
	hemorrhage	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	granulation	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (20)	0 (0)	0 (0)	0 (0)
{Digestive system}										
liver			< 5>				< 5>			
	herniation	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. : 0885
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : MALE

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

PAGE : 5

		Group Name	Control				6.3ppm				12.5ppm				25ppm			
		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+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			< 5>				< 5>				< 5>				< 5>			
	eosinophilic body		5	0	0	0	5	0	0	0	5	0	0	0	5	0	0	0
			(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	mineralization:papilla		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)
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)

BAIS5

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 REPORT TYPE : A1
 SEX : MALE

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

Organ	Findings	50ppm				100ppm			
		5				5			
		1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Urinary system}

kidney

	< 5>				< 5>			
	5	0	0	0	5	0	0	0
eosinophilic body	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
mineralization:papilla	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 b : Number of animals with lesion
 (c) c : b / a * 100

(HPT150)

TABLE K2

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

STUDY NO. : 0885
 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				6.3ppm				12.5ppm				25ppm				
		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>				
	exudate:neutrophil leukocyte		0 (0)	0 (0)	0 (0)	0 (0)	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:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	4 (80)	0 (0)	0 (0)	0 (0)	3 (60)	2 (40)	0 (0)	0 (0)
	inflammation: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)	3 (60)	0 (0)	0 (0)	0 (0)	0 (0)	3 (60)	0 (0)	0 (0)	0 (0)	5 (100)	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)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (60)	0 (0)	0 (0)	0 (0)
	regeneration:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	3 (60)	0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)	2 (40)	0 (0)	0 (0)	0 (0)
	regeneration:olfactory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (40)	0 (0)	0 (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)	2 (40)	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. : 0885
 ANIMAL : RAT F344/DuCr1Cr1J[F344/DuCrJ]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study				50ppm				100ppm			
		Grade				5				5			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}													
nasal cavit		< 5>				< 5>				< 5>			
	exudate:neutrophil leukocyte	0	0	0	0	1	1	0	0				
		(0)	(0)	(0)	(0)	(20)	(20)	(0)	(0)				
	inflammation:respiratory epithelium	1	4	0	0	0	1	4	0				
		(20)	(80)	(0)	(0)	(0)	(20)	(80)	(0)				
	inflammation:olfactory epithelium	0	0	0	0	3	0	0	0				
		(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)				
	squamous cell metaplasia:respiratory epithelium	4	1	0	0	0	4	0	0				
		(80)	(20)	(0)	(0)	(0)	(80)	(0)	(0)				
	ulcer:respiratory epithelium	0	0	0	0	3	1	0	0				
		(0)	(0)	(0)	(0)	(60)	(20)	(0)	(0)				
	regeneration:respiratory epithelium	2	0	0	0	0	0	0	0				
		(40)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
	regeneration:olfactory epithelium	1	0	0	0	3	0	0	0				
		(20)	(0)	(0)	(0)	(60)	(0)	(0)	(0)				
	atrophy:olfactory epithelium	4	0	0	0	2	2	0	0				
		(80)	(0)	(0)	(0)	(40)	(40)	(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. : 0885
 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				6.3ppm				12.5ppm				25ppm			
		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]																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	necrosis:olfactory 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)
	vacuolic change:olfactory epithelium		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)
	necrosis:respiratory epithelium		0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	necrosis:squamous epithelium		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(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)
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)

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. : 0885
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 10

Organ	Findings	Group Name				50ppm				100ppm						
		No. of Animals on Study				5				5						
		Grade	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+		
			(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)	(%)	(%)	(%)		
{Respiratory system}																
nasal cavit			< 5>					< 5>					< 5>			
	necrosis:olfactory epithelium		1	0	0	0		2	0	0	0		0	0	0	
			(20)	(0)	(0)	(0)		(40)	(0)	(0)	(0)		(0)	(0)	(0)	
	vacuolic change:olfactory epithelium		3	0	0	0		1	0	0	0		0	0	0	
			(60)	(0)	(0)	(0)		(20)	(0)	(0)	(0)		(0)	(0)	(0)	
	necrosis:respiratory epithelium		3	1	0	0		4	1	0	0		0	0	0	
			(60)	(20)	(0)	(0)		(80)	(20)	(0)	(0)		(0)	(0)	(0)	
	necrosis:squamous epithelium		3	0	0	0		4	0	0	0		0	0	0	
			(60)	(0)	(0)	(0)		(80)	(0)	(0)	(0)		(0)	(0)	(0)	
			< 5>					< 5>					< 5>			
larynx	inflammation		0	0	0	0		3	1	0	0		0	0	0	
			(0)	(0)	(0)	(0)		(60)	(20)	(0)	(0)		(0)	(0)	(0)	
	squamous cell metaplasia		0	0	0	0		3	0	0	0		0	0	0	
			(0)	(0)	(0)	(0)		(60)	(0)	(0)	(0)		(0)	(0)	(0)	
trachea			< 5>					< 5>					< 5>			
	inflammation		0	0	0	0		1	0	0	0		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 : Number of animals with lesion

(c) c : b / a * 100

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	50ppm				100ppm			
			5				5			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)

{Respiratory system}

lung	hemorrhage		< 5>				< 5>			
			0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)

{Digestive system}

liver	herniation		< 5>				< 5>			
			0	0	0	0	2	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

(HPT150)

BA1S5

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCrIGr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 11

Organ_____	Findings_____	Group Name	Control				6. 3ppm				12. 5ppm				25ppm			
		No. of Animals on Study	5				5				5				5			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}																		
lung	hemorrhage		< 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)	
{Digestive system}																		
liver	herniation		< 5>				< 5>				< 5>				< 5>			
			1	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)	
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)

BA1S5

TABLE K3

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

STUDY NO. : 0885
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study Grade	Control				6.3ppm				12.5ppm				25ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 0>				< 0>				< 0>				< 0>			
	exudate:neutrophil leukocyte		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	inflammation:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:olfactory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
	necrosis:respiratory epithelium		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
larynx			< 0>				< 0>				< 0>				< 0>			
	inflammation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
trachea			< 0>				< 0>				< 0>				< 0>			
	inflammation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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. : 0885
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 2

Organ	Findings	Group Name		50ppm				100ppm			
		No. of Animals on Study		0				1			
		Grade		1+	2+	3+	4+	1+	2+	3+	4+
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}											
nasal cavit				< 0>				< 1>			
	exudate:neutrophil leukocyte			-	-	-	-	0	1	0	0
				(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)
	inflammation:respiratory epithelium			-	-	-	-	0	1	0	0
				(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)
	necrosis:olfactory epithelium			-	-	-	-	1	0	0	0
				(-)	(-)	(-)	(-)	(100)	(0)	(0)	(0)
	necrosis:respiratory epithelium			-	-	-	-	1	0	0	0
				(-)	(-)	(-)	(-)	(100)	(0)	(0)	(0)
larynx				< 0>				< 1>			
	inflammation			-	-	-	-	0	1	0	0
				(-)	(-)	(-)	(-)	(0)	(100)	(0)	(0)
trachea				< 0>				< 1>			
	inflammation			-	-	-	-	1	0	0	0
				(-)	(-)	(-)	(-)	(100)	(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
SACRIFICED ANIMALS**

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCrIGr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study				Control				6.3ppm				12.5ppm				25ppm			
		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>			
	exudate:neutrophil leukocyte	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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:respiratory epithelium	0	0	0	0	5	0	0	0	4	0	0	0	3	2	0	0	3	2	0	0
		(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(60)	(40)	(0)	(0)	(60)	(40)	(0)	(0)
	inflammation: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	3	0	0	0	3	0	0	0	5	0	0	0	5	0	0	0
		(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	ulcer:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(60)	(0)	(0)	(0)
	regeneration:respiratory epithelium	0	0	0	0	3	0	0	0	5	0	0	0	2	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	regeneration:olfactory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	atrophy:olfactory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(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

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study				50ppm				100ppm			
		Grade				5				4			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}													
nasal cavit		< 5>				< 4>							
	exudate:neutrophil leukocyte	0	0	0	0	1	0	0	0				
		(0)	(0)	(0)	(0)	(25)	(0)	(0)	(0)				
	inflammation:respiratory epithelium	1	4	0	0	0	0	4	0				
		(20)	(80)	(0)	(0)	(0)	(0)	(100)	(0)				
	inflammation:olfactory epithelium	0	0	0	0	3	0	0	0				
		(0)	(0)	(0)	(0)	(75)	(0)	(0)	(0)				
	squamous cell metaplasia:respiratory epithelium	4	1	0	0	0	4	0	0				
		(80)	(20)	(0)	(0)	(0)	(100)	(0)	(0)				
	ulcer:respiratory epithelium	0	0	0	0	3	1	0	0				
		(0)	(0)	(0)	(0)	(75)	(25)	(0)	(0)				
	regeneration:respiratory epithelium	2	0	0	0	0	0	0	0				
		(40)	(0)	(0)	(0)	(0)	(0)	(0)	(0)				
	regeneration:olfactory epithelium	1	0	0	0	3	0	0	0				
		(20)	(0)	(0)	(0)	(75)	(0)	(0)	(0)				
	atrophy:olfactory epithelium	4	0	0	0	2	2	0	0				
		(80)	(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

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 9

		Group Name	Control				6.3ppm				12.5ppm				25ppm			
		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]																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	necrosis:olfactory 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)
	vacuolic change:olfactory epithelium		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)
	necrosis:respiratory epithelium		0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	necrosis:squamous epithelium		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(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>			
	hemorrhage		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade	1+ : Slight	2+ : Moderate	3+ : Marked	4+ : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
(c)	c : b / a * 100																	

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study				50ppm				100ppm			
		Grade				5				4			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}													
nasal cavit		< 5>				< 4>							
	necrosis:olfactory epithelium	1	0	0	0	1	0	0	0	1	0	0	0
		(20)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(25)	(0)	(0)	(0)
		< 5>				< 4>							
	vacuolic change:olfactory epithelium	3	0	0	0	1	0	0	0	1	0	0	0
		(60)	(0)	(0)	(0)	(25)	(0)	(0)	(0)	(25)	(0)	(0)	(0)
		< 5>				< 4>							
	necrosis:respiratory epithelium	3	1	0	0	3	1	0	0	3	1	0	0
		(60)	(20)	(0)	(0)	(75)	(25)	(0)	(0)	(75)	(25)	(0)	(0)
		< 5>				< 4>							
	necrosis:squamous epithelium	3	0	0	0	4	0	0	0	4	0	0	0
		(60)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
larynx		< 5>				< 4>							
	inflammation	0	0	0	0	3	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(75)	(0)	(0)	(0)	(75)	(0)	(0)	(0)
		< 5>				< 4>							
	squamous cell metaplasia	0	0	0	0	3	0	0	0	3	0	0	0
		(0)	(0)	(0)	(0)	(75)	(0)	(0)	(0)	(75)	(0)	(0)	(0)
lung		< 5>				< 4>							
	hemorrhage	0	0	0	0	1	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(25)	(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 b : Number of animals with lesion
 (c) c : b / a * 100

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control				6.3ppm				12.5ppm				25ppm			
			1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver	herniation		< 5>				< 5>				< 5>				< 5>			
			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 b : Number of animals with lesion
 (c) c : b / a * 100

(HPT150)

BAIS5

STUDY NO. : 0885
 ANIMAL : RAT F344/DuCrIj[F344/DuCrj]
 REPORT TYPE : A1
 SEX : FEMALE

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

PAGE : 12

Organ	Findings	Group Name		50ppm				100ppm			
		No. of Animals on Study		5				4			
		Grade		1+	2+	3+	4+	1+	2+	3+	4+
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Digestive system}

liver		< 5>				< 4>			
herniation		0	0	0	0	2	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

(HPT150)

BAIS5