

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

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCrI CrIj [F344/DuCrj]

REPORT TYPE : A1 2

SEX : MALE

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	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(%)

STUDY NO. : 0885

SURVIVAL ANIMAL NUMBERS

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

REPORT TYPE : A1 2

SEX : MALE

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(%)

**TABLE B2**

**SURVIVAL ANIMAL NUMBERS : FEMALE**

STUDY NO. : 0885

SURVIVAL ANIMAL NUMBERS

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

REPORT TYPE : A1 2

SEX : FEMALE

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											

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

STUDY NO. : 0885

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCrI CrIj[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
PILORECTION	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
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
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

Clinical sign	Group Name	Administration Week-day													
		1-1 1	1-1 2	1-2 1	1-2 2	1-3 1	1-3 2	1-4 1	1-4 2	1-5 1	1-6 1	1-7 1	1-7 2	2-1 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

STUDY NO. : 0885  
 ANIMAL : RAT F344/DuCr1Cr1j[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

**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

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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
PILORECTION	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/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

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
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 : 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

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

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

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

**TABLE D1**

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

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

MEAN BODY WEIGHTS AND SURVIVAL

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

**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

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

**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

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/DuCrI CrIj [F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 2  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration week-day						
	1-1	1-2	1-5	1-7	2-2	2-5	2-7
Control	92± 2	94± 3	98± 4	101± 4	104± 5	109± 5	114± 4
6.3ppm	91± 4	90± 3	91± 3*	95± 5	98± 4	102± 4*	108± 6
12.5ppm	92± 3	90± 3	89± 3**	96± 4	100± 3	105± 4	112± 4
25ppm	92± 4	89± 4	87± 3**	93± 4**	94± 4**	99± 4**	103± 5**
50ppm	91± 3	85± 5**	83± 3**	90± 3**	92± 3**	98± 3**	102± 3**
100ppm	91± 3	77± 2**	77± 2**	85± 3**	90± 4**	98± 4**	103± 5**

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/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 2  
 SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control		6.3ppm		12.5ppm		25ppm		50ppm		100ppm						
	Av.FC. < 5>	No. of Surviv. < 5>	Av.FC. < 5>	% of cont. < 5>	No. of Surviv. < 5>	Av.FC. < 5>	% of cont. < 5>	No. of Surviv. < 5>	Av.FC. < 5>	% of cont. < 5>	No. of Surviv. < 5>	Av.FC. < 5>	% of cont. < 5>	No. of Surviv. < 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

**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

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										

**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

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

**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

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

Group Name	NO. of Animals	RED BLOOD CELL 1 O <sup>6</sup> /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 1 O <sup>3</sup> /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

STUDY NO. : 0885  
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	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

STUDY NO. : 0885  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS ( 3W)

REPORT TYPE : A1

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
		10 <sup>3</sup> /μℓ		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 ≤ 0.05

\*\* : P ≤ 0.01

Test of t -

**TABLE F2**

**HEMATOLOGY : FEMALE**

STUDY NO. : 0885

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)

ALL ANIMALS ( 3W)

PAGE : 4

Group Name	NO. of Animals	RED BLOOD CELL 10 <sup>6</sup> /μl	HEMOGLOBIN g/dl	HEMATOCRIT %	MCV fl	MCH pg	MCHC g/dl	PLATELET 10 <sup>3</sup> /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 ≤ 0.05

\*\* : P ≤ 0.01

Test of t

(HCL070)

BAIS 5

STUDY NO. : 0885  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
MEASURE. TIME : 1  
SEX : FEMALE

HEMATOLOGY (SUMMARY)  
ALL ANIMALS ( 3W)

REPORT TYPE : A1

PAGE : 5

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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

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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

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS ( 3W)

REPORT TYPE : A1

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO		EOSINO		BASO		OTHER	
		10 <sup>3</sup> /μl		NEUTRO		LYMPHO									
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 ≤ 0.05      \*\* : P ≤ 0.01      Test of t

**TABLE G1**

**BIOCHEMISTRY : MALE**

STUDY NO. : 0885  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS ( 3W)

REPORT TYPE : A1

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 ≤ 0.05      \*\* : P ≤ 0.01

Test of t

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 ≤ 0.05

\*\* : P ≤ 0.01

Test of t

STUDY NO. : 0885

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS ( 3W)

Group Name	NO. of Animals	UREA NITROGEN mg/dl		CREATININE mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	5	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 ≤ 0.05

\*\* : P ≤ 0.01

Test of t

**TABLE G2**

**BIOCHEMISTRY : FEMALE**

STUDY NO. : 0885  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE TIME : 1  
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS ( 3W)

REPORT TYPE : A1

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 ≤ 0.05      \*\* : P ≤ 0.01

Test of t

STUDY NO. : 0885

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)

ALL ANIMALS ( 3W)

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	5	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 ≤ 0.05

\*\* : P ≤ 0.01

Test of t

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 ≤ 0.05

\*\* : P ≤ 0.01

Test of t

**TABLE H1**

**GROSS FINDINGS : FEMALE**

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

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

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)

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

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

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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)

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**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)

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 ≤ 0.05    \*\* : P ≤ 0.01

Test of t

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

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

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	5	1.106±	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)

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 ≤ 0.05    \*\* : P ≤ 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)

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 ≤ 0.05    \*\* : P ≤ 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)

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 ≤ 0.05    \*\* : P ≤ 0.01

Test of t

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

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

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.784 ± 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 ≤ 0.05    \*\* : P ≤ 0.01

Test of t

**TABLE J2**

**ORGAN WEIGHT, RELATIVE : FEMALE**

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

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

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	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)

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)

Organ	Findings	Control				6.3ppm				12.5ppm				25ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				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>			
inflammation:respiratory epithelium		0	0	0	0	5	0	0	0	5	0	0	0	0	5	0	0
		( 0)	( 0)	( 0)	( 0)	(100)	( 0)	( 0)	( 0)	(100)	( 0)	( 0)	( 0)	( 0)	( 0)	(100)	( 0)
squamous cell metaplasia:respiratory epithelium		0	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)	(100)	( 0)	( 0)	( 0)
ulcer:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
regeneration:respiratory epithelium		0	0	0	0	2	0	0	0	4	0	0	0	3	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 40)	( 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)
atrophy:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
necrosis:olfactory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
vacuolic change:olfactory epithelium		0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 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)

Organ	Findings	50ppm				100ppm			
		5				5			
Group Name No. of Animals on Study		1+	2+	3+	4+	1+	2+	3+	4+
Grade		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}									
nasal cavit									
	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 : 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)

Organ	Findings	Control 5				6.3ppm 5				12.5ppm 5				25ppm 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)	0 ( 0)	0 ( 0)	5 (100)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 80)	0 ( 0)	0 ( 0)	0 ( 0)
	necrosis:squamous 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)	3 ( 60)	0 ( 0)	0 ( 0)	0 ( 0)
larynx	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)
	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)
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)	1 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)
	granulation	< 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)	1 ( 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 : 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)

Organ	Findings	50ppm				100ppm			
		No. of Animals on Study				No. of Animals on Study			
		5				5			
		1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}									
nasal cavit	necrosis:respiratory epithelium	< 5>				< 5>			
		5	0	0	0	3	2	0	0
		(100)	( 0)	( 0)	( 0)	( 60)	( 40)	( 0)	( 0)
	necrosis:squamous epithelium	< 5>				< 5>			
		5	0	0	0	4	0	0	0
		(100)	( 0)	( 0)	( 0)	( 80)	( 0)	( 0)	( 0)
larynx	inflammation	< 5>				< 5>			
		1	0	0	0	5	0	0	0
		( 20)	( 0)	( 0)	( 0)	(100)	( 0)	( 0)	( 0)
	squamous cell metaplasia	< 5>				< 5>			
		0	0	0	0	2	2	0	0
		( 0)	( 0)	( 0)	( 0)	( 40)	( 40)	( 0)	( 0)
lung	hemorrhage	< 5>				< 5>			
		0	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	granulation	< 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	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/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

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

Organ	Findings	Control				6.3ppm				12.5ppm				25ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				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+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																	
kidney																	
eosinophilic body		< 5>				< 5>				< 5>				< 5>			
		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 : 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)

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

{Urinary system}

kidney

Findings	< 5>				< 5>			
	5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
eosinophilic body	5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
mineralization:papilla	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

**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)

Organ	Findings	Group Name No. of Animals on Study Grade	Control 5				6.3ppm 5				12.5ppm 5				25ppm 5			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]																		
nasal cavit																		
	exudate:neutrophil leukocyte		< 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)	
	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)	0 ( 0)	3 ( 60)	2 ( 40)
	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)	
	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)	0 ( 0)	5 (100)	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)	0 ( 0)	3 ( 60)	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)	0 ( 0)	2 ( 40)	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)	2 ( 40)	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)	2 ( 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)

Organ	Findings	50ppm				100ppm			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]									
nasal cavit		< 5>				< 5>			
	exudate:neutrophil leukocyte	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)	1 ( 20)	0 ( 0)	0 ( 0)
	inflammation:respiratory epithelium	1 ( 20)	4 ( 80)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 20)	4 ( 80)	0 ( 0)
	inflammation:olfactory epithelium	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 60)	0 ( 0)	0 ( 0)	0 ( 0)
	squamous cell metaplasia:respiratory epithelium	4 ( 80)	1 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 80)	0 ( 0)	0 ( 0)
	ulcer:respiratory epithelium	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 60)	1 ( 20)	0 ( 0)	0 ( 0)
	regeneration:respiratory epithelium	2 ( 40)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	regeneration:olfactory epithelium	1 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 60)	0 ( 0)	0 ( 0)	0 ( 0)
	atrophy:olfactory epithelium	4 ( 80)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 40)	2 ( 40)	0 ( 0)	0 ( 0)

Grade 1+ : Slight    2+ : Moderate    3+ : Marked    4+ : Severe  
 < a > a : Number of animals examered 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)

Organ	Findings	Control				6.3ppm				12.5ppm				25ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit																	
	necrosis:olfactory epithelium	< 5>				< 5>				< 5>				< 5>			
		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																	
	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)
	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																	
	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)

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)

Organ	Findings	50ppm				100ppm			
		5				5			
Grade		1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]									
nasal cavit		< 5>				< 5>			
	necrosis:olfactory epithelium	1	0	0	0	2	0	0	0
		( 20)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)
	vacuolic change:olfactory epithelium	3	0	0	0	1	0	0	0
		( 60)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
	necrosis:respiratory epithelium	3	1	0	0	4	1	0	0
		( 60)	( 20)	( 0)	( 0)	( 80)	( 20)	( 0)	( 0)
	necrosis:squamous epithelium	3	0	0	0	4	0	0	0
		( 60)	( 0)	( 0)	( 0)	( 80)	( 0)	( 0)	( 0)
larynx		< 5>				< 5>			
	inflammation	0	0	0	0	3	1	0	0
		( 0)	( 0)	( 0)	( 0)	( 60)	( 20)	( 0)	( 0)
	squamous cell metaplasia	0	0	0	0	3	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 60)	( 0)	( 0)	( 0)
trachea		< 5>				< 5>			
	inflammation	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. : 0885  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Group Name		50ppm				100ppm			
		No. of Animals on Study		5				5			
		Grade		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 : 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)

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]																		
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 : Number of animals with lesion  
 ( c ) c : b / a \* 100

**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)

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

Organ	Findings	Group Name No. of Animals on Study Grade	50ppm				100ppm			
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Respiratory system}										
nasal cavit	exudate:neutrophil leukocyte		< 0 >				< 1 >			
			-	-	-	-	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	inflammation		< 0 >				< 1 >			
			-	-	-	-	0	1	0	0
			( - )	( - )	( - )	( - )	( 0 )	( 100 )	( 0 )	( 0 )
trachea	inflammation		< 0 >				< 1 >			
			-	-	-	-	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 : 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/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

Organ	Findings	Control				6.3ppm				12.5ppm				25ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		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>			
	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	5	0	0	0	4	0	0	0	3	2	0	0
		( 0)	( 0)	( 0)	( 0)	(100)	( 0)	( 0)	( 0)	( 80)	( 0)	( 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)
	squamous cell metaplasia:respiratory epithelium	0	0	0	0	3	0	0	0	3	0	0	0	5	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 60)	( 0)	( 0)	( 0)	( 60)	( 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
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 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
		( 0)	( 0)	( 0)	( 0)	( 60)	( 0)	( 0)	( 0)	(100)	( 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
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 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
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)

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

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

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

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

Organ	Findings	Control				6.3ppm				12.5ppm				25ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit	necrosis:olfactory epithelium	< 5>				< 5>				< 5>				< 5>			
		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	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)
	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	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)	( 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)  
 SACRIFICED ANIMALS ( 3W)

Organ	Findings	50ppm				100ppm			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]									
nasal cavit	necrosis:olfactory epithelium	< 5>				< 4>			
		1 ( 20)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 25)	0 ( 0)	0 ( 0)	0 ( 0)
	vacuolic change:olfactory epithelium	3 ( 60)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 25)	0 ( 0)	0 ( 0)	0 ( 0)
	necrosis:respiratory epithelium	3 ( 60)	1 ( 20)	0 ( 0)	0 ( 0)	3 ( 75)	1 ( 25)	0 ( 0)	0 ( 0)
larynx	necrosis:squamous epithelium	3 ( 60)	0 ( 0)	0 ( 0)	0 ( 0)	4 (100)	0 ( 0)	0 ( 0)	0 ( 0)
	inflammation	< 5>				< 4>			
		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 75)	0 ( 0)	0 ( 0)	0 ( 0)
	squamous cell metaplasia	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 75)	0 ( 0)	0 ( 0)	0 ( 0)
lung	hemorrhage	< 5>				< 4>			
		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 25)	0 ( 0)	0 ( 0)	0 ( 0)

Grade 1+ : Slight 2+ : Moderate 3+ : Marked 4+ : Severe  
 < a > a : Number of animals examined at the site  
 b : 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)

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

{Digestive system}

liver	herniation		< 5>				< 4>			
			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 : Number of animals with lesion  
 ( c ) c : b / a \* 100

(HPT150)