

2-アミノ-4-クロロフェノールのラットを用いた  
経口投与によるがん原性試験（混餌試験）報告書

試験番号：0579

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SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104  
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 1

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
1280 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
3200 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
8000 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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(%)															

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STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104  
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 2

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
1280 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
3200 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
8000 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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(%)													

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STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 3

Group Name	Animals At start	Administration (Weeks)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
1280 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	49/50
		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	98.0
3200 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
8000 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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(%)															

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STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 4

Group Name	Animals At start	Administration (Weeks)													
		42	43	44	45	46	47	48	49	50	51	52	53	54	55
Control	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
1280 ppm	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
3200 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
8000 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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(%)															

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STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 5

Group Name	Animals At start	Administration (Weeks)													
		56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0
1280 ppm	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
3200 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
8000 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	48/50
		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	96.0
Number of survival/ Number of effective animals Survival rate(%)															

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STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104  
SEX : MALE

SURVIVAL ANIMAL NUMBERS

PAGE : 6

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	46/50	45/50	45/50	44/50	44/50	44/50	44/50
		94.0	94.0	94.0	94.0	94.0	94.0	94.0	92.0	90.0	90.0	88.0	88.0	88.0	88.0
1280 ppm	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
3200 ppm	50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	48/50	47/50	46/50	46/50	46/50	46/50	46/50
		98.0	98.0	98.0	98.0	98.0	98.0	98.0	96.0	94.0	92.0	92.0	92.0	92.0	92.0
8000 ppm	50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50
		96.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
Number of survival/ Number of effective animals Survival rate(%)															

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STUDY NO. : 0579

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

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Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	44/50	44/50	44/50	44/50	43/50	43/50	43/50	43/50	42/50	42/50	40/50	40/50	38/50	36/50
		88.0	88.0	88.0	88.0	86.0	86.0	86.0	86.0	84.0	84.0	80.0	80.0	76.0	72.0
1280 ppm	50	49/50	48/50	48/50	48/50	48/50	47/50	47/50	47/50	45/50	45/50	44/50	43/50	42/50	42/50
		98.0	96.0	96.0	96.0	96.0	94.0	94.0	94.0	90.0	90.0	88.0	86.0	84.0	84.0
3200 ppm	50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50	44/50	43/50
		92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	88.0	86.0
8000 ppm	50	47/50	47/50	47/50	46/50	46/50	45/50	44/50	44/50	44/50	44/50	43/50	43/50	42/50	42/50
		94.0	94.0	94.0	92.0	92.0	90.0	88.0	88.0	88.0	88.0	86.0	86.0	84.0	84.0
Number of survival/ Number of effective animals															
Survival rate(%)															

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STUDY NO. : 0579

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : MALE

PAGE : 8

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	36/50	36/50	36/50	35/50	35/50	33/50	33/50
		72.0	72.0	72.0	70.0	70.0	66.0	66.0
1280 ppm	50	42/50	42/50	42/50	41/50	40/50	39/50	38/50
		84.0	84.0	84.0	82.0	80.0	78.0	76.0
3200 ppm	50	41/50	41/50	41/50	41/50	41/50	41/50	39/50
		82.0	82.0	82.0	82.0	82.0	82.0	78.0
8000 ppm	50	41/50	40/50	40/50	39/50	39/50	39/50	39/50
		82.0	80.0	80.0	78.0	78.0	78.0	78.0
Number of survival/ Number of effective animals								
Survival rate(%)								

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**TABLE A 2**

**SURVIVAL ANIMAL NUMBERS: FEMALE**

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104  
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 9

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
1280 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
3200 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
8000 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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(%)															

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STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 10

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
1280 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
3200 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
8000 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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(%)															

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STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104  
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 11

Group Name	Animals At start	Administration (Weeks)													
		28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
1280 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
3200 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
8000 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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(%)															

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BAIS4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

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Group Name	Animals At start	Administration (Weeks)													
		42	43	44	45	46	47	48	49	50	51	52	53	54	55
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
1280 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
3200 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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
8000 ppm	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
		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(%)															

(HAN360)

BAIS4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104  
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 13

Group Name	Animals At start	Administration (Weeks)													
		56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	49/50
		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	98.0
1280 ppm	50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
3200 ppm	50	50/50	50/50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50
		100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0
8000 ppm	50	50/50	50/50	50/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50	49/50
		100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
Number of survival/ Number of effective animals		Survival rate(%)													

(HAN360)

BAIS4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104  
 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 14

Group Name	Animals At start	Administration (Weeks)													
		70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	49/50	49/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50
		98.0	98.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
1280 ppm	50	49/50	49/50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50
		98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
3200 ppm	50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50
		96.0	96.0	96.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
8000 ppm	50	49/50	49/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	48/50	47/50
		98.0	98.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	94.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCr.j]  
REPORT TYPE : A1 104  
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE : 15

Group Name	Animals At start	Administration (Weeks)													
		84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	47/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50	46/50	46/50	45/50	45/50	45/50	45/50
		94.0	94.0	94.0	94.0	94.0	92.0	92.0	92.0	92.0	92.0	90.0	90.0	90.0	90.0
1280 ppm	50	48/50	48/50	48/50	47/50	47/50	47/50	47/50	46/50	46/50	46/50	46/50	46/50	46/50	46/50
		96.0	96.0	96.0	94.0	94.0	94.0	94.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
3200 ppm	50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50	47/50
		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
8000 ppm	50	45/50	45/50	44/50	44/50	44/50	44/50	44/50	44/50	44/50	44/50	44/50	44/50	44/50	44/50
		90.0	90.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
Number of survival/ Number of effective animals Survival rate(%)															

(HAN360)

BAIS4

STUDY NO. : 0579

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

PAGE : 16

Group Name	Animals At start	Administration (Weeks)						
		98	99	100	101	102	103	104
Control	50	45/50	45/50	45/50	43/50	43/50	43/50	42/50
		90.0	90.0	90.0	86.0	86.0	86.0	84.0
1280 ppm	50	46/50	46/50	46/50	46/50	46/50	46/50	45/50
		92.0	92.0	92.0	92.0	92.0	92.0	90.0
3200 ppm	50	47/50	47/50	47/50	46/50	46/50	46/50	46/50
		94.0	94.0	94.0	92.0	92.0	92.0	92.0
8000 ppm	50	42/50	41/50	41/50	41/50	41/50	40/50	40/50
		84.0	82.0	82.0	82.0	82.0	80.0	80.0
Number of survival/ Number of effective animals								
Survival rate(%)								

(HAN360)

BAIS4

**TABLE B 1**

**CLINICAL OBSERVATION: MALE**

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A LOT OF SPILLED FOOD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	1	1	1	1	1	2	1	2	2	2



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A LOT OF SPILLED FOOD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	2	2	2	2	4	4	4	4	4	4	4	7	7	7

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

PAGE : 3

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A LOT OF SPILLED FOOD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	7	7	7	7	7	7	6	6	6	6	5	5	4	4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

PAGE : 4

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A LOT OF SPILLED FOOD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	4	4	4	4	4	4	3	3	3	3	3	4	4	4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	2	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	1	1	1	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
A LOT OF SPILLED FOOD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	1	1	1	0	0	0	0
	8000 ppm	6	6	5	5	7	7	4	5	6	6	6	5	4	4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	1	1	1	1	1	1	2	3	3	4	4	4	4	4
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	1	1	1	1	1	1	2	3	4	4	4	4	4	4
	8000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A LOT OF SPILLED FOOD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	4	4	6	6	2	2	2	2	2	2	1	1	1	1

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	4	4	4	4	4	4	4	5	5	7	7	9	11	11
	1280 ppm	2	2	2	2	3	3	3	4	4	5	5	6	6	6
	3200 ppm	4	4	4	4	4	4	4	4	4	4	4	5	5	5
	8000 ppm	1	1	2	2	3	4	4	4	4	5	5	6	6	7
MORIBUND SACRIFICE	Control	2	2	2	3	3	3	3	3	3	3	3	3	3	3
	1280 ppm	0	0	0	0	0	0	0	1	1	1	2	2	2	2
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	1	2	4
	8000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARALYTIC GAIT	Control	1	1	1	0	0	0	0	0	0	0	0	1	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A LOT OF SPILLED FOOD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	11	11	11	11	12	12
	1280 ppm	6	6	6	7	7	8
	3200 ppm	5	5	5	5	5	7
	8000 ppm	8	8	8	8	8	8
MORIBUND SACRIFICE	Control	3	3	4	4	5	5
	1280 ppm	2	2	3	3	4	4
	3200 ppm	4	4	4	4	4	4
	8000 ppm	2	2	3	3	3	3
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	1280 ppm	0	1	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
ATAXIC GAIT	Control	0	0	0	1	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
A LOT OF SPILLED FOOD	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	1280 ppm	0	0	1	1	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	1	0	0	0
SOILED	Control	0	0	0	1	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	1	1	1	1	1

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
PILOERECTON	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	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
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	1	1	0	0	0	0	1	2	2	2	2	2
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	0	0	0	0	0	1	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	1	1	1	1	1	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	8000 ppm	1	2	2	2	2	2	2	2	2	2	2	2	2	2
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
PILOERECTON	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	1	1	1	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	2	3	3	3	3	3	3	3	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
PILOERECTION	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	1	1	1	1	3	3	3	3
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	3	2	2	2	2	2	2	2
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	3200 ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	8000 ppm	4	5	5	5	5	6	6	6	7	7	7	7	7	7
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
PILOERECTON	Control	1	1	1	1	1	1	1	1	1	1	1	1	0	0
	1280 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	1	1	1	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROG BELLY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	1	1	1	0	0	1	1	0	1	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	6	6	5	5	4	3	3	3	3	3	0	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATARACT	Control	1	1	1	1	1	1	1	1	1	2	3	3	3	3
	1280 ppm	2	2	3	3	2	2	2	2	2	3	3	3	3	3
	3200 ppm	2	2	2	2	2	2	2	2	2	2	3	3	3	3
	8000 ppm	7	7	8	8	9	8	8	8	8	8	9	9	9	9
CORNEAL OPACITY	Control	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
PILOERECTIO	Control	0	0	0	0	0	0
	1280 ppm	0	1	0	1	0	0
	3200 ppm	0	0	1	1	1	1
	8000 ppm	1	1	1	1	1	1
FROG BELLY	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	1	1	2	0
	8000 ppm	0	1	1	1	1	1
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	1280 ppm	0	0	1	1	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1
EXOPHTHALMOS	Control	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1
	3200 ppm	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
CATARACT	Control	3	3	4	4	4	4
	1280 ppm	3	3	3	3	3	3
	3200 ppm	3	3	3	3	3	3
	8000 ppm	9	9	10	10	10	12
CORNEAL OPACITY	Control	1	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	2	2	2	2	2	0
ANTERIOR CHAMBER OPACITY	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
ABNORMAL GROWTH OF TEETH	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	1	1	1	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	1	1	1	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	1	1	3	2	1	1	1
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	1	2	2	2	2	2	3	3	3	3	3	3	3	3
	8000 ppm	1	1	1	1	2	2	3	3	3	3	3	3	3	4
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	1	1	2	1	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	1	1	1	1	1	1	1	1	0	0	0
	1280 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	3200 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	1	1	1	1	1	1	1	1	0	0	0
	1280 ppm	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	1	2	2	2	2	2	2	2	3	4	4	5	6	6
	1280 ppm	1	2	1	3	3	3	3	3	4	4	4	4	5	5
	3200 ppm	3	3	3	3	3	3	2	3	2	3	3	4	3	3
	8000 ppm	4	4	4	5	5	5	5	5	5	5	5	5	5	5
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	1	1	1	1	2	2
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
MALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	7	8	8	8	8	9	9	10	10	11	12	13	12	11
	1280 ppm	6	6	7	7	6	9	9	9	9	11	11	11	11	13
	3200 ppm	3	3	3	2	2	3	3	4	4	5	3	3	2	3
	8000 ppm	5	6	5	6	7	9	9	9	9	9	8	10	10	10
INTERNAL MASS	Control	0	0	0	0	0	1	1	0	0	0	1	1	1	1
	1280 ppm	1	1	0	1	1	1	1	1	1	1	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	2	2	2	0	0	0	0	0	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	1	1	1	1	1	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	2	2	2	2	1
	1280 ppm	2	2	2	2	1	1	1	1	1	1	0	0	0	0
	3200 ppm	0	0	0	0	0	1	1	1	1	1	0	0	0	0
	8000 ppm	0	0	0	0	0	1	1	1	1	1	0	0	0	0
M. ORAL CAVITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI EAR	Control	2	2	2	2	2	2	2	2	2	1	1	1	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
MALOCCLUSION	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0
EXTERNAL MASS	Control	12	13	12	12	11	13
	1280 ppm	13	13	13	13	14	14
	3200 ppm	5	6	7	7	6	9
	8000 ppm	10	10	10	10	11	11
INTERNAL MASS	Control	2	2	2	2	2	2
	1280 ppm	2	2	2	2	2	2
	3200 ppm	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1
M. NOSE	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	1
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
M. EYE	Control	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	1	1	1	0	1
	1280 ppm	1	1	1	1	1	1
	3200 ppm	2	2	2	1	0	0
	8000 ppm	1	1	1	1	1	1
M. ORAL CAVITY	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	1
	8000 ppm	0	0	0	0	0	0
M. MANDIBULAR	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	1	1
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	2	2	2	2	2	2	2	2	2	2
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	2	2	2	2	2	2	2	2	2	2	2
M. ABDOMEN	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	1280 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. ANTERIOR. DORSUM	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	1	1	1	1	1	1	1	2	1	2	2	3	2	2
	8000 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
M. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	1	2	2	3	3	3
	1280 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	1	1	1	1	1	1	1	1	1	1	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M. NECK	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	1	1	1	1	1	1	1	1	2	4	4	4	5
	1280 ppm	0	0	0	0	0	0	0	0	0	1	2	2	2	2
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	2	2	2	2	2	2	2	2	2	2	3	3	3	2
M. ABDOMEN	Control	1	1	1	1	1	2	2	2	2	2	1	2	2	2
	1280 ppm	1	1	2	2	2	4	4	5	5	5	5	4	4	6
	3200 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	2
	8000 ppm	1	1	1	2	2	3	3	3	3	3	2	2	2	3
M. ANTERIOR DORSUM	Control	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	3200 ppm	2	2	2	1	1	1	1	1	1	1	1	0	0	0
	8000 ppm	1	1	1	1	1	2	2	2	2	2	1	3	3	3
M. POSTERIOR DORSUM	Control	3	3	3	3	3	3	3	3	3	3	2	2	2	2
	1280 ppm	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	1	1	1	2	2	2	2	2	2	2	2	2	2
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
M. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : MALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. NECK	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
M. FORELIMB	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
M. BREAST	Control	5	5	5	6	6	6
	1280 ppm	2	2	2	2	2	2
	3200 ppm	0	0	0	0	0	2
	8000 ppm	2	2	2	2	2	3
M. ABDOMEN	Control	3	3	3	3	3	5
	1280 ppm	5	5	6	6	6	6
	3200 ppm	2	3	3	3	3	3
	8000 ppm	2	2	2	2	2	2
M. ANTERIOR DORSUM	Control	2	2	2	2	2	2
	1280 ppm	2	2	2	2	2	2
	3200 ppm	0	0	1	1	1	1
	8000 ppm	3	3	3	3	3	3
M. POSTERIOR DORSUM	Control	2	2	2	2	2	2
	1280 ppm	2	2	2	2	2	3
	3200 ppm	1	1	1	2	2	2
	8000 ppm	2	2	2	2	2	2
M. HINDLIMB	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	1	1
M. GENITALIA	Control	1	1	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	1280 ppm	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	1	1	1	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	1	1	1	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	1	0	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
ANEMIA	Control	0	0	0	0	1	2	2	1	1	1	1	1	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	0
ULCER	Control	1	1	1	1	1	1	1	1	1	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PROLAPSE OF PENIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	1	1	1	0	0	1	2	1	1	1	3	1	0	0
	1280 ppm	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	1	0	1	1	2	2	1	2	2	1	1	0	0
	1280 ppm	1	1	1	1	1	1	2	0	0	1	0	0	0	1
	3200 ppm	0	0	0	0	0	0	0	0	1	4	4	3	2	0
	8000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
ANEMIA	Control	0	1	1	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	1	0
	8000 ppm	1	2	2	2	2	2
ULCER	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
CRUSTA	Control	1	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
TORTICOLLIS	Control	0	0	0	0	0	0
	1280 ppm	2	2	1	1	1	1
	3200 ppm	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1
PROLAPSE OF PENIS	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	1	1
IRREGULAR BREATHING	Control	0	0	0	1	0	0
	1280 ppm	0	1	0	1	1	0
	3200 ppm	0	1	1	1	1	1
	8000 ppm	0	0	0	0	0	1
RESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0
SMALL STOOL	Control	0	3	4	3	1	1
	1280 ppm	1	2	1	1	1	0
	3200 ppm	0	0	1	1	1	1
	8000 ppm	0	1	1	1	1	1

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1280 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	3200 ppm	50	49	49	49	49	49	49	49	49	49	49	49	49	49
	8000 ppm	50	50	50	50	49	49	49	49	49	48	49	48	48	47

(HAN190)

BAIS 4



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1280 ppm	50	50	50	50	49	49	49	49	49	49	49	49	49	49
	3200 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	8000 ppm	47	47	47	47	46	46	46	45	45	44	44	41	41	41

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BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
OLIGO-STOOL	Control	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	50	50	50	48	48	48	48	48	48	48	48	49	49	49
	1280 ppm	49	49	49	49	49	49	49	48	49	49	49	49	48	46
	3200 ppm	49	47	48	48	48	48	48	48	48	48	48	48	48	48
	8000 ppm	41	41	41	40	40	40	41	41	41	40	41	41	42	42

(HAN190)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	49	49	48	48	48	49	49	49	49	49	49	49	49	49
	1280 ppm	46	46	46	46	46	46	46	46	46	46	46	46	46	45
	3200 ppm	48	48	48	48	48	48	48	48	48	48	48	48	48	47
	8000 ppm	42	41	41	41	41	41	42	42	42	42	42	41	40	41

(HAN190)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	1280 ppm	0	1	1	1	1	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	2	2	0	0
NON REMARKABLE	Control	49	49	49	49	49	49	49	48	48	46	46	47	46	46
	1280 ppm	45	45	45	45	45	46	46	45	45	45	45	45	45	45
	3200 ppm	47	46	45	45	45	45	44	44	44	44	44	44	44	44
	8000 ppm	39	38	39	39	37	37	39	38	37	37	35	36	37	36

(HAN190)

BATS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

PAGE : 46

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
OLIGO-STOOL	Control	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	1	1	1	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	46	44	44	44	44	43	42	42	41	39	39	38	37	37
	1280 ppm	45	44	45	44	44	44	44	44	43	43	43	42	42	41
	3200 ppm	43	43	43	43	43	43	42	40	40	39	39	38	39	39
	8000 ppm	36	36	33	32	35	34	33	33	32	32	30	30	30	30

(HAN190)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : MALE

PAGE : 47

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
OLIGO-STOOL	Control	0	1	1	1	2	3	3	2	2	1	2	2	0	0
	1280 ppm	0	0	0	0	0	0	1	0	1	1	0	0	1	2
	3200 ppm	0	0	0	0	0	0	0	0	1	4	4	3	2	0
	8000 ppm	0	0	0	0	0	0	0	1	1	2	2	1	1	0
NON REMARKABLE	Control	35	34	34	33	31	30	30	29	29	25	22	20	20	21
	1280 ppm	38	38	37	36	37	36	35	34	33	30	31	30	29	25
	3200 ppm	39	39	38	39	40	39	39	38	37	34	36	35	35	35
	8000 ppm	29	28	26	25	23	22	22	22	22	20	23	23	23	23

(HAN190)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : MALE

PAGE : 48

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
OLIGO-STOOL	Control	0	2	2	2	0	1
	1280 ppm	1	1	1	1	1	0
	3200 ppm	1	1	1	1	2	1
	8000 ppm	0	0	0	0	0	0
NON REMARKABLE	Control	20	17	17	17	18	15
	1280 ppm	24	24	24	23	21	21
	3200 ppm	32	31	29	29	29	26
	8000 ppm	22	21	19	19	18	18

(HAN190)

BAIS 4

**TABLE B 2**

**CLINICAL OBSERVATION: FEMALE**



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	1	2	3	3	3
	8000 ppm	0	10	18	20	20	25	25	23	23	24	28	25	25	24
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	3	3	3	2	2	2	2	6	6	6	6	7	7	4
	8000 ppm	24	25	25	20	20	28	28	23	23	12	13	17	17	16
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	1	1	1	2	2	1	1	1	1	1
	3200 ppm	4	4	4	4	4	5	5	5	5	5	5	5	5	6
	8000 ppm	16	11	11	10	11	15	15	18	18	18	18	15	15	19
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 52

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	3	3	3	3	2
	3200 ppm	6	2	2	2	2	2	2	4	4	4	4	4	4	3
	8000 ppm	19	11	11	16	16	15	15	15	15	21	21	23	23	18
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 53

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	1	1	1	1	1	2	2	2	2	2
	8000 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	2	3	3	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	3	5	5	3	3	4	4	3	3	3	3	3	3	3
	8000 ppm	18	19	20	13	13	15	15	7	7	10	10	13	13	13
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
DEATH	Control	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	3200 ppm	2	2	3	3	3	3	3	3	3	3	3	3	3	3
	8000 ppm	1	2	2	2	2	2	2	2	2	2	2	2	3	5
MORIBUND SACRIFICE	Control	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	3	3	3	3	3	3	3	3	3	5	5	4	4	4
	8000 ppm	13	12	12	15	15	15	15	12	12	15	15	10	10	11
PILOERECTOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
DEATH	Control	1	1	1	1	2	2	2	2	2	3	3	3	3	3
	1280 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	3200 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	8000 ppm	5	6	6	6	6	6	6	6	6	6	6	6	6	7
MORIBUND SACRIFICE	Control	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1280 ppm	0	0	1	1	1	1	2	2	2	2	2	2	2	2
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	4	4	4	4	4	4	4	4	4	4	4	1	1	1
	8000 ppm	11	10	10	10	10	6	6	3	3	3	3	3	3	3
PILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	3	3	3	3	3	4
	1280 ppm	2	2	2	2	2	3
	3200 ppm	3	3	4	4	4	4
	8000 ppm	8	8	8	8	9	9
MORIBUND SACRIFICE	Control	2	2	4	4	4	4
	1280 ppm	2	2	2	2	2	2
	3200 ppm	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
WASTING	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	2	2
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
SOILED	Control	0	1	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
COLORED	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1
	8000 ppm	3	3	3	3	3	3
PILOERECTION	Control	0	1	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
SOILED PERI-GENITALIA	Control	1	1	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
GUM	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	3200 ppm	0	0	0	0	0	0	0	0	0	1	2	2	2	2
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	2	2	2	2	2	2	2	2	2	2	2	3	3	3
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
CATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	1	1	1	1	1	1	1	1	1	1	1
EXTERNAL MASS	Control	0	0	0	1	1	0	0	0	0	0	1	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	1	1	0	0	0	0	0	1	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
CATARACT	Control	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	3	3	3	3	3	3	3	3	3	3	3	3	4	4
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXTERNAL MASS	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
CATARACT	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	4	4	4	4	3	4	4	4	4	4	4	4	4	4
	8000 ppm	1	1	1	1	2	2	2	2	2	2	2	2	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXTERNAL MASS	Control	1	1	2	2	2	2	3	2	2	2	2	2	2	2
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	1	0	0	0	0	0	1	1	1	1	2	2
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	1	0	0	1	1	1	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	1	0	0	0	0	0	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	1	1	2	2	2	2	2	2	2	2	2	2	2	2
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
CATARACT	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	8000 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXTERNAL MASS	Control	2	2	2	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	0	0	0	0	1	1	1	1	1	1	2	3	3	3
	3200 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	8000 ppm	1	1	1	1	1	1	1	1	1	1	2	2	2	2
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	2	0
M. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. BREAST	Control	2	2	2	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	2	2	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
CATARACT	Control	1	2	2	2	2	4	4	4	4	4	4	4	4	4
	1280 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	8000 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXTERNAL MASS	Control	2	2	2	2	2	2	2	3	3	3	4	4	4	4
	1280 ppm	3	3	3	3	4	3	3	3	3	3	5	5	6	6
	3200 ppm	2	2	2	2	2	2	2	2	2	2	4	4	5	5
	8000 ppm	2	1	1	1	2	2	2	1	1	1	2	2	3	2
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	1	1	1	1	1	3	3	3	3	3	3	2
M. NOSE	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	1	0	0	0	0	0	0	0	1	1
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	1	1	1	0	0	0	0	0	0	0
M. BREAST	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	1280 ppm	1	2	2	2	2	2	2	2	2	2	3	3	3	3
	3200 ppm	0	0	0	0	0	0	0	0	0	0	2	2	2	2
	8000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	2	2
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
CATARACT	Control	4	4	4	4	4	4
	1280 ppm	1	2	3	3	3	3
	3200 ppm	5	5	5	5	5	5
	8000 ppm	3	3	3	3	3	3
CORNEAL OPACITY	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	1	1	1	1	1	1
	8000 ppm	1	1	1	1	1	1
EXTERNAL MASS	Control	6	6	7	7	7	8
	1280 ppm	7	8	11	11	10	11
	3200 ppm	5	5	5	5	5	6
	8000 ppm	2	2	2	2	2	2
INTERNAL MASS	Control	1	1	1	1	1	1
	1280 ppm	1	1	1	1	1	2
	3200 ppm	0	1	1	1	1	2
	8000 ppm	1	1	1	0	0	0
M. NOSE	Control	1	1	1	1	1	1
	1280 ppm	1	1	1	1	1	1
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0
	1280 ppm	1	1	1	1	0	0
	3200 ppm	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0
M. BREAST	Control	3	3	4	4	4	5
	1280 ppm	1	1	1	1	1	1
	3200 ppm	1	1	1	1	1	2
	8000 ppm	0	0	0	0	0	0
M. ABDOMEN	Control	1	1	1	1	1	1
	1280 ppm	3	4	6	6	6	6
	3200 ppm	2	2	2	2	2	2
	8000 ppm	2	2	2	2	2	2
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	1
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
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Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	8000 ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	1	1	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	0	0	0	0	0	0	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
M. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	1	1	2	2
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
ANEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	1	0	2	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
OLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
M. HINDLIMB	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	2	1	1	1	1	1	1	1	1	1	1	1	1	1
	3200 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ANEMIA	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	1	0	0	0	1	1	1	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	1
CRUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
IRREGULAR BREATHING	Control	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	1	0
RED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGO-STOOL	Control	0	0	0	1	0	0	0	0	0	1	0	0	0	0
	1280 ppm	0	1	0	0	1	0	0	0	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8000 ppm	1	0	0	0	0	0	0	0	0	0	0	1	1	0

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
 ALL ANIMALS

SEX : FEMALE

PAGE : 72

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
M. HINDLIMB	Control	1	1	1	1	1	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	1280 ppm	1	1	2	2	2	3
	3200 ppm	1	1	1	1	1	1
	8000 ppm	0	0	0	0	0	0
ANEMIA	Control	1	1	0	0	1	1
	1280 ppm	0	0	1	1	1	1
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
CRUSTA	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	1	1	1	1	1	1
HEMORRHAGE	Control	0	0	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
IRREGULAR BREATHING	Control	1	1	0	0	0	0
	1280 ppm	0	0	0	0	0	1
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	1
RED URINE	Control	1	1	0	0	0	0
	1280 ppm	0	0	0	0	0	0
	3200 ppm	0	0	0	0	0	0
	8000 ppm	0	0	0	0	0	0
SMALL STOOL	Control	1	1	0	0	0	0
	1280 ppm	1	1	1	0	0	0
	3200 ppm	0	0	1	1	1	1
	8000 ppm	0	0	2	2	2	1
OLIGO-STOOL	Control	2	2	1	1	1	1
	1280 ppm	0	0	1	1	1	1
	3200 ppm	0	0	0	0	0	1
	8000 ppm	0	0	1	1	1	2



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 73

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
NON REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1280 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	49
	3200 ppm	50	50	50	50	50	50	50	49	49	48	46	45	45	45
	8000 ppm	50	40	32	30	30	25	25	27	27	26	22	25	25	26

(HAN190)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 74

Clinical sign	Group Name	Administration Week-day													
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7	27-7	28-7
NON REMARKABLE	Control	50	50	47	50	50	50	50	50	50	50	50	50	50	50
	1280 ppm	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	3200 ppm	45	45	45	46	46	46	46	42	42	42	42	42	42	44
	8000 ppm	26	25	25	30	30	22	22	27	27	38	37	33	32	33

(HAN190)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 75

Clinical sign	Group Name	Administration Week-day													
		29-7	30-7	31-7	32-7	33-7	34-7	35-7	36-7	37-7	38-7	39-7	40-7	41-7	42-7
NON REMARKABLE	Control	50	50	50	49	49	50	50	50	50	50	49	50	50	50
	1280 ppm	49	49	49	49	48	48	48	47	47	48	48	48	48	48
	3200 ppm	44	44	44	44	44	43	43	43	43	43	43	43	43	42
	8000 ppm	33	38	38	38	37	33	33	30	30	30	30	33	33	29

(HAN190)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 76

Clinical sign	Group Name	Administration Week-day													
		43-7	44-7	45-7	46-7	47-7	48-7	49-7	50-7	51-7	52-7	53-7	54-7	55-7	56-7
NON REMARKABLE	Control	49	49	49	50	49	49	49	49	49	49	49	49	49	49
	1280 ppm	48	48	48	48	48	48	48	48	48	46	46	46	46	47
	3200 ppm	42	45	45	45	45	45	45	44	44	44	44	44	42	44
	8000 ppm	29	37	37	32	32	33	33	33	32	26	26	24	24	29

(HAN190)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 77

Clinical sign	Group Name	Administration Week-day													
		57-7	58-7	59-7	60-7	61-7	62-7	63-7	64-7	65-7	66-7	67-7	68-7	69-7	70-7
NON REMARKABLE	Control	48	48	47	47	47	46	45	47	47	47	47	47	46	46
	1280 ppm	46	45	45	47	47	47	47	47	47	47	47	47	47	47
	3200 ppm	44	42	41	44	44	42	41	42	41	41	40	40	39	40
	8000 ppm	28	27	26	33	32	30	30	38	38	35	35	32	30	30

(HAN190)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 78

Clinical sign	Group Name	Administration Week-day													
		71-7	72-7	73-7	74-7	75-7	76-7	77-7	78-7	79-7	80-7	81-7	82-7	83-7	84-7
NON REMARKABLE	Control	46	45	45	45	45	45	45	45	45	45	45	45	45	45
	1280 ppm	47	47	47	46	44	44	44	45	45	45	44	42	43	43
	3200 ppm	40	40	39	39	39	39	39	39	39	37	37	38	38	38
	8000 ppm	30	30	30	27	27	27	27	30	29	26	25	30	28	27

(HAN190)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 79

Clinical sign	Group Name	Administration Week-day													
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	95-7	96-7	97-7	98-7
NON REMARKABLE	Control	44	43	43	42	42	40	40	40	40	38	38	37	37	37
	1280 ppm	43	43	43	43	41	43	42	42	41	41	39	39	38	38
	3200 ppm	38	38	38	38	38	38	38	38	38	38	37	38	37	37
	8000 ppm	27	28	27	27	25	30	30	33	33	33	32	32	31	31

(HAN190)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)  
ALL ANIMALS

SEX : FEMALE

PAGE : 80

Clinical sign	Group Name	Administration Week-day					
		99-7	100-7	101-7	102-7	103-7	104-7
NON REMARKABLE	Control	33	33	32	32	32	31
	1280 ppm	36	34	30	31	32	29
	3200 ppm	37	36	34	34	34	33
	8000 ppm	31	31	29	29	28	29

(HAN190)

BAIS 4



TABLE C 1

BODY WEIGHT CHANGES AND  
SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		1280 ppm		3200 ppm		8000 ppm				
	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0-0	129 (50)	50/50	129 (50)	100	50/50	129 (50)	100	50/50	129 (50)	100	50/50
1-7	156 (50)	50/50	156 (50)	100	50/50	156 (50)	100	50/50	152 (50)	97	50/50
2-7	186 (50)	50/50	185 (50)	99	50/50	185 (50)	99	50/50	179 (50)	96	50/50
3-7	210 (50)	50/50	206 (50)	98	50/50	207 (50)	99	50/50	200 (50)	95	50/50
4-7	229 (50)	50/50	224 (50)	98	50/50	226 (50)	99	50/50	218 (50)	95	50/50
5-7	246 (50)	50/50	239 (50)	97	50/50	242 (50)	98	50/50	234 (50)	95	50/50
6-7	259 (50)	50/50	251 (50)	97	50/50	256 (50)	99	50/50	246 (50)	95	50/50
7-7	273 (50)	50/50	265 (50)	97	50/50	269 (50)	99	50/50	259 (50)	95	50/50
8-7	285 (50)	50/50	277 (50)	97	50/50	282 (50)	99	50/50	271 (50)	95	50/50
9-7	296 (50)	50/50	286 (50)	97	50/50	293 (50)	99	50/50	282 (50)	95	50/50
10-7	305 (50)	50/50	295 (50)	97	50/50	302 (50)	99	50/50	291 (50)	95	50/50
11-7	313 (50)	50/50	303 (50)	97	50/50	311 (50)	99	50/50	298 (50)	95	50/50
12-7	318 (50)	50/50	308 (50)	97	50/50	315 (50)	99	50/50	302 (50)	95	50/50
13-7	325 (50)	50/50	314 (50)	97	50/50	320 (50)	98	50/50	307 (50)	94	50/50
14-7	333 (50)	50/50	321 (50)	96	50/50	328 (50)	98	50/50	315 (50)	95	50/50
18-7	352 (50)	50/50	343 (50)	97	50/50	351 (50)	100	50/50	338 (50)	96	50/50
22-7	368 (50)	50/50	356 (50)	97	50/50	368 (50)	100	50/50	353 (50)	96	50/50
26-7	384 (50)	50/50	371 (50)	97	50/50	384 (50)	100	50/50	368 (50)	96	50/50
30-7	394 (50)	50/50	383 (50)	97	50/50	394 (50)	100	50/50	380 (50)	96	50/50
34-7	403 (49)	49/50	391 (50)	97	50/50	405 (50)	100	50/50	389 (50)	97	50/50
38-7	413 (49)	49/50	398 (50)	96	50/50	413 (50)	100	50/50	397 (50)	96	50/50
42-7	422 (49)	49/50	410 (49)	97	49/50	424 (50)	100	50/50	406 (50)	96	50/50
46-7	430 (49)	49/50	416 (49)	97	49/50	433 (50)	101	50/50	414 (50)	96	50/50
50-7	435 (49)	49/50	423 (49)	97	49/50	438 (50)	101	50/50	420 (50)	97	50/50
54-7	440 (49)	49/50	427 (49)	97	49/50	443 (50)	101	50/50	425 (50)	97	50/50
58-7	443 (49)	49/50	431 (49)	97	49/50	447 (50)	101	50/50	430 (50)	97	50/50
62-7	446 (49)	49/50	433 (49)	97	49/50	451 (49)	101	49/50	431 (50)	97	50/50
66-7	449 (49)	49/50	437 (49)	97	49/50	455 (49)	101	49/50	432 (50)	96	50/50
70-7	451 (47)	47/50	439 (49)	97	49/50	455 (49)	101	49/50	434 (48)	96	48/50
74-7	452 (47)	47/50	441 (49)	98	49/50	457 (49)	101	49/50	435 (47)	96	47/50
78-7	452 (45)	45/50	442 (49)	98	49/50	460 (47)	102	47/50	434 (47)	96	47/50
82-7	448 (44)	44/50	440 (49)	98	49/50	457 (46)	102	46/50	433 (47)	97	47/50
86-7	444 (44)	44/50	439 (48)	99	48/50	456 (46)	103	46/50	428 (47)	96	47/50
90-7	440 (43)	43/50	437 (47)	99	47/50	453 (46)	103	46/50	422 (44)	96	44/50
94-7	431 (40)	40/50	436 (44)	101	44/50	441 (46)	102	46/50	415 (43)	96	43/50
98-7	427 (36)	36/50	422 (42)	99	42/50	441 (41)	103	41/50	412 (41)	96	41/50
102-7	414 (35)	35/50	413 (40)	100	40/50	432 (41)	104	41/50	397 (39)	96	39/50
104-7	410 (33)	33/50	414 (38)	101	38/50	423 (39)	103	39/50	390 (39)	95	39/50
< >:No. of effective animals. ( ):No. of measured animals											
Av. Wt. : g											

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

TABLE C 2

BODY WEIGHT CHANGES AND  
SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

PAGE : 2

Week-Day on Study	Control			1280 ppm			3200 ppm			8000 ppm		
	Av. Wt.	No. of Surviv. <50>		Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.	Av. Wt.	% of cont. <50>	No. of Surviv.
0-0	100 (50)	50/50		100 (50)	100	50/50	100 (50)	100	50/50	100 (50)	100	50/50
1-7	112 (50)	50/50		111 (50)	99	50/50	111 (50)	99	50/50	109 (50)	97	50/50
2-7	122 (50)	50/50		122 (50)	100	50/50	121 (50)	99	50/50	118 (50)	97	50/50
3-7	132 (50)	50/50		131 (50)	99	50/50	130 (50)	98	50/50	126 (50)	95	50/50
4-7	139 (50)	50/50		139 (50)	100	50/50	138 (50)	99	50/50	133 (50)	96	50/50
5-7	146 (50)	50/50		145 (50)	99	50/50	144 (50)	99	50/50	139 (50)	95	50/50
6-7	151 (50)	50/50		151 (50)	100	50/50	148 (50)	98	50/50	144 (50)	95	50/50
7-7	154 (50)	50/50		154 (50)	100	50/50	153 (50)	99	50/50	147 (50)	95	50/50
8-7	158 (50)	50/50		158 (50)	100	50/50	155 (50)	98	50/50	149 (50)	94	50/50
9-7	161 (50)	50/50		161 (50)	100	50/50	159 (50)	99	50/50	153 (50)	95	50/50
10-7	165 (50)	50/50		166 (50)	101	50/50	163 (50)	99	50/50	156 (50)	95	50/50
11-7	167 (50)	50/50		168 (50)	101	50/50	166 (50)	99	50/50	158 (50)	95	50/50
12-7	169 (50)	50/50		170 (50)	101	50/50	168 (50)	99	50/50	161 (50)	95	50/50
13-7	171 (50)	50/50		172 (50)	101	50/50	170 (50)	99	50/50	163 (50)	95	50/50
14-7	173 (50)	50/50		174 (50)	101	50/50	172 (50)	99	50/50	164 (50)	95	50/50
18-7	181 (50)	50/50		182 (50)	101	50/50	179 (50)	99	50/50	169 (50)	93	50/50
22-7	186 (50)	50/50		188 (50)	101	50/50	184 (50)	99	50/50	174 (50)	94	50/50
26-7	192 (50)	50/50		192 (50)	100	50/50	189 (50)	98	50/50	178 (50)	93	50/50
30-7	196 (50)	50/50		197 (50)	101	50/50	193 (50)	98	50/50	182 (50)	93	50/50
34-7	200 (50)	50/50		201 (50)	101	50/50	196 (50)	98	50/50	186 (50)	93	50/50
38-7	207 (50)	50/50		206 (50)	100	50/50	201 (50)	97	50/50	189 (50)	91	50/50
42-7	211 (50)	50/50		211 (50)	100	50/50	206 (50)	98	50/50	194 (50)	92	50/50
46-7	215 (50)	50/50		217 (50)	101	50/50	208 (50)	97	50/50	196 (50)	91	50/50
50-7	221 (50)	50/50		221 (50)	100	50/50	212 (50)	96	50/50	200 (50)	90	50/50
54-7	227 (50)	50/50		226 (50)	100	50/50	218 (50)	96	50/50	206 (50)	91	50/50
58-7	229 (50)	50/50		232 (49)	101	49/50	222 (50)	97	50/50	210 (50)	92	50/50
62-7	236 (50)	50/50		236 (49)	100	49/50	226 (49)	96	49/50	212 (49)	90	49/50
66-7	243 (50)	50/50		246 (49)	101	49/50	234 (48)	96	48/50	219 (49)	90	49/50
70-7	250 (49)	49/50		251 (49)	100	49/50	239 (48)	96	48/50	224 (49)	90	49/50
74-7	259 (47)	47/50		260 (48)	100	48/50	246 (47)	95	47/50	230 (48)	89	48/50
78-7	267 (47)	47/50		268 (48)	100	48/50	254 (47)	95	47/50	238 (48)	89	48/50
82-7	273 (47)	47/50		272 (48)	100	48/50	257 (47)	94	47/50	241 (48)	88	48/50
86-7	277 (47)	47/50		276 (48)	100	48/50	261 (47)	94	47/50	245 (44)	88	44/50
90-7	285 (46)	46/50		282 (47)	99	47/50	267 (47)	94	47/50	251 (44)	88	44/50
94-7	288 (45)	45/50		289 (46)	100	46/50	271 (47)	94	47/50	256 (44)	89	44/50
98-7	288 (45)	45/50		292 (46)	101	46/50	273 (47)	95	47/50	256 (42)	89	42/50
102-7	293 (43)	43/50		295 (46)	101	46/50	273 (46)	93	46/50	255 (41)	87	41/50
104-7	293 (42)	42/50		294 (45)	100	45/50	273 (46)	93	46/50	254 (40)	87	40/50

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

**TABLE C 3**

**BODY WEIGHT CHANGES: MALE**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 1

Group Name	Administration		week-day									
	0-0		1-7		2-7		3-7		4-7		5-7	
Control	129±	5	156±	7	186±	8	210±	9	229±	9	246±	11
1280 ppm	129±	5	156±	8	185±	10	206±	12	224±	13*	239±	14*
3200 ppm	129±	5	156±	7	185±	8	207±	8	226±	9	242±	10
8000 ppm	129±	5	152±	8**	179±	11**	200±	12**	218±	12**	234±	13**

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

Test of Dunnett

(HAN260)

BATS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 2

Group Name	Administration		week-day									
	7-7		8-7		9-7		10-7		11-7		12-7	
Control	273±	12	285±	14	296±	15	305±	15	313±	15	318±	15
1280 ppm	265±	17*	277±	18*	286±	18**	295±	19**	303±	19**	308±	19**
3200 ppm	269±	12	282±	14	293±	14	302±	14	311±	15	315±	16
8000 ppm	259±	15**	271±	16**	282±	16**	291±	17**	298±	17**	302±	17**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 3

Group Name	Administration		week-day									
	14-7		18-7		22-7		26-7		30-7		34-7	
Control	333±	17	352±	18	368±	18	384±	20	394±	21	403±	21
1280 ppm	321±	20**	343±	21*	356±	20**	371±	20**	383±	20*	391±	22*
3200 ppm	328±	16	351±	17	368±	18	384±	19	394±	22	405±	21
8000 ppm	315±	17**	338±	16**	353±	17**	368±	18**	380±	19**	389±	19**

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

Test of Dunnett

(HAN260)

BATS 4



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 4

Group Name	Administration		week-day									
	42-7		46-7		50-7		54-7		58-7		62-7	
Control	422±	22	430±	24	435±	23	440±	23	443±	24	446±	24
1280 ppm	410±	23*	416±	23*	423±	22*	427±	23*	431±	22*	433±	22*
3200 ppm	424±	22	433±	23	438±	24	443±	25	447±	28	451±	26
8000 ppm	406±	20**	414±	21**	420±	22**	425±	23**	430±	23*	431±	24**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 5

Group Name	Administration		week-day									
	70-7		74-7		78-7		82-7		86-7		90-7	
Control	451±	25	452±	24	452±	23	448±	23	444±	33	440±	40
1280 ppm	439±	23*	441±	24	442±	25	440±	25	439±	28	437±	33
3200 ppm	455±	33	457±	39	460±	29	457±	30	456±	30	453±	32
8000 ppm	434±	22**	435±	24**	434±	26**	433±	28*	428±	29*	422±	28*

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 6

Group Name	Administration week-day					
	98-7		102-7		104-7	
Control	427±	31	414±	39	410±	43
1280 ppm	422±	42	413±	48	414±	36
3200 ppm	441±	33	432±	40	423±	40
8000 ppm	412±	37	397±	34	390±	38

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

Test of Dunnett

(HAN260)

BATS 4

**TABLE C 4**

**BODY WEIGHT CHANGES: FEMALE**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 7

Group Name	Administration		week-day											
	0-0		1-7		2-7		3-7		4-7		5-7		6-7	
Control	100±	3	112±	4	122±	5	132±	6	139±	7	146±	7	151±	8
1280 ppm	100±	3	111±	4	122±	5	131±	5	139±	7	145±	7	151±	8
3200 ppm	100±	3	111±	4	121±	5	130±	5	138±	6	144±	7	148±	7
8000 ppm	100±	3	109±	4**	118±	6**	126±	6**	133±	7**	139±	8**	144±	9**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 8

Group Name	Administration		week-day									
	7-7		8-7		9-7		10-7		11-7		12-7	
Control	154±	9	158±	10	161±	10	165±	11	167±	11	169±	11
1280 ppm	154±	8	158±	10	161±	10	166±	10	168±	10	170±	11
3200 ppm	153±	8	155±	9	159±	9	163±	9	166±	10	168±	10
8000 ppm	147±	9**	149±	10**	153±	11**	156±	11**	158±	11**	161±	12**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 9

Group Name	Administration		week-day									
	14-7		18-7		22-7		26-7		30-7		34-7	
Control	173±	12	181±	12	186±	13	192±	13	196±	15	200±	15
1280 ppm	174±	11	182±	11	188±	12	192±	13	197±	13	201±	14
3200 ppm	172±	11	179±	11	184±	12	189±	13	193±	13	196±	14
8000 ppm	164±	12**	169±	12**	174±	13**	178±	13**	182±	14**	186±	14**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 10

Group Name	Administration		week-day									
	42-7		46-7		50-7		54-7		58-7		62-7	
Control	211±	18	215±	18	221±	20	227±	21	229±	22	236±	24
1280 ppm	211±	15	217±	15	221±	16	226±	17	232±	19	236±	20
3200 ppm	206±	17	208±	17	212±	19*	218±	20	222±	22	226±	23
8000 ppm	194±	16**	196±	18**	200±	18**	206±	19**	210±	21**	212±	21**

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

Test of Dunnett

(HAN260)

BAIS 4



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 11

Group Name	Administration		week-day									
	70-7		74-7		78-7		82-7		86-7		90-7	
Control	250±	27	259±	29	267±	30	273±	30	277±	30	285±	29
1280 ppm	251±	22	260±	24	268±	24	272±	24	276±	24	282±	26
3200 ppm	239±	28	246±	28*	254±	29*	257±	29*	261±	30*	267±	31**
8000 ppm	224±	24**	230±	24**	238±	24**	241±	25**	245±	25**	251±	26**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 12

Group Name	Administration week-day					
	98-7		102-7		104-7	
Control	288±	34	293±	31	293±	32
1280 ppm	292±	27	295±	30	294±	34
3200 ppm	273±	31*	273±	30**	273±	31*
8000 ppm	256±	24**	255±	28**	254±	32**

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

Test of Dunnett

(HAN260)

BATS 4

TABLE D 1

FOOD CONSUMPTION CHANGES AND  
SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control		1280 ppm			3200 ppm			8000 ppm		
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1-7	13. 6 (50)	50/50	13. 7 (50)	101	50/50	13. 8 (50)	101	50/50	13. 4 (50)	99	50/50
2-7	14. 1 (50)	50/50	14. 3 (50)	101	50/50	14. 3 (50)	101	50/50	13. 7 (50)	97	50/50
3-7	15. 0 (50)	50/50	14. 5 (50)	97	50/50	14. 8 (50)	99	50/50	14. 2 (50)	95	50/50
4-7	15. 0 (50)	50/50	14. 5 (50)	97	50/50	14. 9 (50)	99	50/50	14. 7 (50)	98	50/50
5-7	14. 6 (50)	50/50	14. 2 (50)	97	50/50	14. 6 (50)	100	50/50	14. 2 (50)	97	50/50
6-7	14. 7 (50)	50/50	14. 2 (50)	97	50/50	14. 5 (50)	99	50/50	14. 2 (50)	97	50/50
7-7	14. 9 (50)	50/50	14. 2 (50)	95	50/50	14. 4 (50)	97	50/50	14. 1 (50)	95	50/50
8-7	15. 2 (50)	50/50	14. 7 (50)	97	50/50	14. 9 (50)	98	50/50	14. 6 (50)	96	50/50
9-7	15. 4 (50)	50/50	14. 7 (50)	95	50/50	15. 0 (50)	97	50/50	14. 7 (50)	95	50/50
10-7	15. 4 (50)	50/50	14. 5 (50)	94	50/50	14. 9 (50)	97	50/50	15. 1 (50)	98	50/50
11-7	15. 4 (50)	50/50	14. 6 (50)	95	50/50	14. 9 (50)	97	50/50	14. 7 (50)	95	50/50
12-7	15. 3 (50)	50/50	14. 5 (50)	95	50/50	15. 0 (50)	98	50/50	14. 8 (50)	97	50/50
13-7	15. 4 (50)	50/50	14. 6 (50)	95	50/50	14. 8 (50)	96	50/50	14. 8 (50)	96	50/50
14-7	15. 4 (50)	50/50	14. 7 (50)	95	50/50	15. 0 (50)	97	50/50	14. 8 (50)	96	50/50
18-7	15. 7 (50)	50/50	15. 1 (50)	96	50/50	15. 0 (50)	96	50/50	15. 1 (50)	96	50/50
22-7	16. 2 (50)	50/50	15. 6 (50)	96	50/50	15. 5 (50)	96	50/50	15. 5 (50)	96	50/50
26-7	16. 5 (50)	50/50	16. 1 (50)	98	50/50	16. 0 (50)	97	50/50	16. 0 (50)	97	50/50
30-7	16. 0 (50)	50/50	15. 7 (50)	98	50/50	15. 4 (50)	96	50/50	15. 7 (50)	98	50/50
34-7	16. 4 (49)	49/50	15. 7 (50)	96	50/50	15. 7 (50)	96	50/50	15. 7 (50)	96	50/50
38-7	16. 4 (49)	49/50	15. 8 (50)	96	50/50	16. 0 (50)	98	50/50	15. 7 (50)	96	50/50
42-7	16. 2 (49)	49/50	15. 9 (49)	98	49/50	15. 7 (50)	97	50/50	15. 6 (50)	96	50/50
46-7	15. 9 (49)	49/50	15. 3 (49)	96	49/50	15. 4 (50)	97	50/50	15. 3 (50)	96	50/50
50-7	15. 9 (49)	49/50	15. 8 (49)	99	49/50	15. 5 (50)	97	50/50	15. 4 (50)	97	50/50
54-7	16. 3 (49)	49/50	15. 8 (49)	97	49/50	15. 6 (50)	96	50/50	15. 7 (50)	96	50/50
58-7	15. 8 (49)	49/50	15. 3 (49)	97	49/50	15. 1 (50)	96	50/50	15. 3 (50)	97	50/50
62-7	16. 7 (49)	49/50	16. 3 (49)	98	49/50	16. 1 (49)	96	49/50	16. 1 (50)	96	50/50
66-7	16. 2 (49)	49/50	16. 0 (49)	99	49/50	15. 9 (49)	98	49/50	15. 5 (50)	96	50/50
70-7	16. 4 (47)	47/50	16. 2 (49)	99	49/50	15. 7 (49)	96	49/50	15. 8 (48)	96	48/50
74-7	16. 8 (47)	47/50	16. 4 (49)	98	49/50	15. 8 (49)	94	49/50	16. 0 (47)	95	47/50
78-7	16. 7 (45)	45/50	16. 8 (49)	101	49/50	16. 4 (47)	98	47/50	16. 5 (47)	99	47/50
82-7	16. 7 (44)	44/50	16. 4 (49)	98	49/50	15. 9 (46)	95	46/50	16. 0 (47)	96	47/50
86-7	16. 4 (43)	44/50	16. 2 (48)	99	48/50	15. 9 (46)	97	46/50	15. 9 (47)	97	47/50
90-7	16. 0 (43)	43/50	15. 6 (47)	98	47/50	15. 4 (46)	96	46/50	15. 2 (44)	95	44/50
94-7	15. 6 (40)	40/50	15. 0 (44)	96	44/50	14. 4 (46)	92	46/50	15. 3 (43)	98	43/50
98-7	15. 7 (36)	36/50	15. 2 (42)	97	42/50	15. 2 (41)	97	41/50	14. 9 (41)	95	41/50
102-7	15. 2 (35)	35/50	15. 3 (40)	101	40/50	15. 1 (41)	99	41/50	15. 3 (39)	101	39/50
104-7	15. 9 (33)	33/50	15. 8 (38)	99	38/50	15. 4 (39)	97	39/50	15. 3 (39)	96	39/50
< >:No. of effective animals, ( ):No. of measured animals                      Av. FC. : g											

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

Av. FC. : g

TABLE D 2

FOOD CONSUMPTION CHANGES AND  
SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control		1280 ppm		3200 ppm		8000 ppm				
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1-7	10.3 (50)	50/50	10.3 (50)	100	50/50	10.1 (50)	98	50/50	10.1 (50)	98	50/50
2-7	9.9 (50)	50/50	10.2 (50)	103	50/50	9.7 (50)	98	50/50	9.5 (50)	96	50/50
3-7	10.1 (50)	50/50	10.4 (50)	103	50/50	10.5 (50)	104	50/50	9.8 (50)	97	50/50
4-7	10.3 (50)	50/50	10.2 (50)	99	50/50	10.2 (50)	99	50/50	10.0 (50)	97	50/50
5-7	10.1 (50)	50/50	10.1 (50)	100	50/50	10.0 (50)	99	50/50	9.9 (50)	98	50/50
6-7	9.9 (50)	50/50	9.9 (50)	100	50/50	9.7 (50)	98	50/50	9.6 (50)	97	50/50
7-7	9.7 (50)	50/50	9.6 (50)	99	50/50	9.7 (50)	100	50/50	9.4 (50)	97	50/50
8-7	9.7 (50)	50/50	9.7 (50)	100	50/50	9.6 (50)	99	50/50	9.4 (50)	97	50/50
9-7	9.8 (50)	50/50	9.8 (50)	100	50/50	9.6 (50)	98	50/50	9.5 (50)	97	50/50
10-7	9.8 (50)	50/50	9.8 (50)	100	50/50	9.7 (50)	99	50/50	9.5 (50)	97	50/50
11-7	9.6 (50)	50/50	9.8 (50)	102	50/50	9.6 (50)	100	50/50	9.4 (50)	98	50/50
12-7	9.9 (50)	50/50	10.1 (50)	102	50/50	9.8 (50)	99	50/50	9.6 (50)	97	50/50
13-7	9.7 (50)	50/50	10.0 (50)	103	50/50	9.6 (50)	99	50/50	9.5 (50)	98	50/50
14-7	10.0 (50)	50/50	10.0 (50)	100	50/50	9.8 (50)	98	50/50	9.4 (50)	94	50/50
18-7	9.7 (50)	50/50	10.2 (50)	105	50/50	9.7 (50)	100	50/50	9.7 (50)	100	50/50
22-7	10.1 (50)	50/50	10.7 (50)	106	50/50	10.2 (50)	101	50/50	10.2 (50)	101	50/50
26-7	10.6 (50)	50/50	10.9 (50)	103	50/50	10.6 (50)	100	50/50	10.1 (50)	95	50/50
30-7	10.6 (50)	50/50	11.0 (50)	104	50/50	10.5 (50)	99	50/50	10.2 (50)	96	50/50
34-7	10.8 (50)	50/50	11.3 (50)	105	50/50	10.6 (50)	98	50/50	10.1 (50)	94	50/50
38-7	11.2 (50)	50/50	12.1 (50)	108	50/50	11.3 (50)	101	50/50	10.6 (50)	95	50/50
42-7	11.0 (50)	50/50	11.5 (50)	105	50/50	10.6 (50)	96	50/50	10.1 (50)	92	50/50
46-7	11.3 (50)	50/50	12.3 (50)	109	50/50	10.9 (50)	96	50/50	10.1 (50)	89	50/50
50-7	12.1 (50)	50/50	12.8 (50)	106	50/50	11.5 (50)	95	50/50	10.9 (50)	90	50/50
54-7	11.8 (50)	50/50	12.6 (50)	107	50/50	11.6 (50)	98	50/50	11.0 (50)	93	50/50
58-7	11.5 (50)	50/50	12.1 (49)	105	49/50	11.3 (50)	98	50/50	10.9 (50)	95	50/50
62-7	12.5 (50)	50/50	13.2 (49)	106	49/50	12.1 (49)	97	49/50	11.5 (49)	92	49/50
66-7	12.3 (50)	50/50	13.6 (49)	111	49/50	12.2 (48)	99	48/50	11.3 (49)	92	49/50
70-7	12.4 (49)	49/50	12.9 (49)	104	49/50	12.1 (48)	98	48/50	11.2 (49)	90	49/50
74-7	13.4 (47)	47/50	14.1 (48)	105	48/50	12.8 (47)	96	47/50	11.9 (48)	89	48/50
78-7	13.7 (47)	47/50	14.3 (48)	104	48/50	13.2 (47)	96	47/50	12.5 (48)	91	48/50
82-7	13.5 (47)	47/50	13.7 (48)	101	48/50	12.5 (47)	93	47/50	11.9 (48)	88	48/50
86-7	13.4 (47)	47/50	13.6 (48)	101	48/50	12.8 (47)	96	47/50	12.3 (44)	92	44/50
90-7	13.8 (46)	46/50	13.9 (47)	101	47/50	12.9 (47)	93	47/50	12.5 (44)	91	44/50
94-7	13.4 (45)	45/50	13.4 (46)	100	46/50	12.7 (47)	95	47/50	12.2 (44)	91	44/50
98-7	13.1 (45)	45/50	13.5 (46)	103	46/50	12.9 (47)	98	47/50	12.2 (42)	93	42/50
102-7	13.8 (43)	43/50	14.0 (46)	101	46/50	12.7 (46)	92	46/50	12.3 (41)	89	41/50
104-7	13.6 (42)	42/50	13.6 (45)	100	45/50	12.6 (46)	93	46/50	12.1 (40)	89	40/50
< >:No. of effective animals. ( ):No. of measured animals      Av. FC.: g											

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

Av. FC. : g

**TABLE D 3**

**FOOD CONSUMPTION CHANGES: MALE**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 1

Group Name	Administration		week-day(effective)		3-7(4)	4-7(4)	5-7(4)	6-7(4)	7-7(4)
	1-7(4)		2-7(4)						
Control	13.6± 0.7		14.1± 0.7		15.0± 0.9	15.0± 0.8	14.6± 1.0	14.7± 1.0	14.9± 1.1
1280 ppm	13.7± 0.7		14.3± 1.0		14.5± 1.0*	14.5± 0.9*	14.2± 1.0	14.2± 1.1*	14.2± 1.1**
3200 ppm	13.8± 0.7		14.3± 0.8		14.8± 0.7	14.9± 0.8	14.6± 0.8	14.5± 0.9	14.4± 0.9*
8000 ppm	13.4± 0.8		13.7± 1.0		14.2± 0.9**	14.7± 0.9	14.2± 0.9	14.2± 0.9*	14.1± 1.0**

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

Test of Dunnett

(HAN260)

BAIS 4



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 2

Group Name	Administration		week-day(effective)											
	8-7 (4)		9-7 (4)		10-7 (4)		11-7 (4)		12-7 (4)		13-7 (4)		14-7 (4)	
Control	15.2±	1.1	15.4±	1.1	15.4±	1.3	15.4±	1.5	15.3±	1.3	15.4±	1.5	15.4±	1.4
1280 ppm	14.7±	1.3	14.7±	1.2**	14.5±	1.0**	14.6±	1.1*	14.5±	1.1**	14.6±	1.0	14.7±	1.2**
3200 ppm	14.9±	1.0	15.0±	1.0	14.9±	0.9	14.9±	1.0	15.0±	1.0	14.8±	0.9	15.0±	1.0
8000 ppm	14.6±	1.0*	14.7±	1.0**	15.1±	1.1	14.7±	1.1	14.8±	1.1	14.8±	1.2	14.8±	1.1*

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 3

Group Name	Administration 18-7(4)	week-day(effective) 22-7(4)	26-7(4)	30-7(4)	34-7(4)	38-7(4)	42-7(4)
Control	15.7± 1.5	16.2± 1.4	16.5± 2.0	16.0± 2.0	16.4± 1.8	16.4± 1.8	16.2± 1.7
1280 ppm	15.1± 1.3*	15.6± 1.2*	16.1± 1.5	15.7± 1.3	15.7± 1.5	15.8± 2.0	15.9± 1.5
3200 ppm	15.0± 1.0*	15.5± 1.1**	16.0± 1.0	15.4± 2.3	15.7± 1.3	16.0± 1.4	15.7± 1.3
8000 ppm	15.1± 1.3*	15.5± 1.3*	16.0± 1.5	15.7± 1.5	15.7± 1.4	15.7± 1.3	15.6± 1.4

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 4

Group Name	Administration week-day(effective)													
	46-7(4)		50-7(4)		54-7(4)		58-7(4)		62-7(4)		66-7(4)		70-7(4)	
Control	15.9±	1.9	15.9±	1.8	16.3±	1.7	15.8±	1.6	16.7±	1.5	16.2±	1.4	16.4±	1.5
1280 ppm	15.3±	1.4	15.8±	1.5	15.8±	1.6	15.3±	1.6	16.3±	1.7	16.0±	1.5	16.2±	1.7
3200 ppm	15.4±	1.2	15.5±	1.3	15.6±	1.7	15.1±	1.2	16.1±	1.3	15.9±	1.3	15.7±	1.4
8000 ppm	15.3±	1.3	15.4±	1.2	15.7±	1.1	15.3±	1.3	16.1±	1.3	15.5±	1.2	15.8±	1.5

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

Test of Dunnett

(HAN260)

BATS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 5

Group Name	Administration		week-day(effective)									
	74-7(4)		78-7(4)		82-7(4)		86-7(4)		90-7(4)		94-7(4)	
Control	16.8±	1.9	16.7±	1.7	16.7±	2.1	16.4±	1.8	16.0±	3.5	15.6±	2.2
1280 ppm	16.4±	1.7	16.8±	2.0	16.4±	1.8	16.2±	1.7	15.6±	1.8	15.0±	2.0
3200 ppm	15.8±	1.9*	16.4±	1.3	15.9±	1.3	15.9±	1.5	15.4±	1.7	14.4±	2.8
8000 ppm	16.0±	1.5	16.5±	1.6	16.0±	1.6	15.9±	1.9	15.2±	2.3	15.3±	2.8

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

Test of Dunnett

(HAN260)

BATS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
UNIT : g  
REPORT TYPE : A1 104  
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 6

Group Name	Administration		week-day(effective)	
	102-7(4)		104-7(4)	
Control	15.2±	3.8	15.9±	2.6
1280 ppm	15.3±	2.1	15.8±	1.8
3200 ppm	15.1±	2.3	15.4±	2.2
8000 ppm	15.3±	2.1	15.3±	1.9

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

Test of Dunnett

(HAN260)

BAIS 4

**TABLE D 4**

**FOOD CONSUMPTION CHANGES: FEMALE**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 7

Group Name	Administration week-day(effective)						
	1-7(4)	2-7(4)	3-7(4)	4-7(4)	5-7(4)	6-7(4)	7-7(4)
Control	10.3± 0.6	9.9± 0.7	10.1± 0.6	10.3± 0.7	10.1± 0.7	9.9± 0.9	9.7± 0.8
1280 ppm	10.3± 0.6	10.2± 0.6	10.4± 1.3	10.2± 0.8	10.1± 0.7	9.9± 0.9	9.6± 0.7
3200 ppm	10.1± 0.5	9.7± 0.7	10.5± 2.1	10.2± 0.6	10.0± 0.7	9.7± 0.6	9.7± 0.7
8000 ppm	10.1± 0.6	9.5± 0.7**	9.8± 0.7*	10.0± 0.9	9.9± 0.8	9.6± 0.9	9.4± 0.9

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 8

Group Name	Administration week-day(effective)					
	8-7(4)	9-7(4)	10-7(4)	11-7(4)	12-7(4)	13-7(4)
Control	9.7± 0.8	9.8± 0.9	9.8± 0.9	9.6± 0.9	9.9± 1.7	9.7± 0.8
1280 ppm	9.7± 0.7	9.8± 0.8	9.8± 0.8	9.8± 0.8	10.1± 1.1	10.0± 1.2
3200 ppm	9.6± 0.8	9.6± 0.7	9.7± 0.7	9.6± 0.8	9.8± 0.9	9.6± 0.8
8000 ppm	9.4± 0.8	9.5± 0.9	9.5± 0.9	9.4± 0.9	9.6± 0.8	9.5± 0.9

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

Test of Dunnett

(HAN260)

BATS 4



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 9

Group Name	Administration week-day(effective)													
	18-7 (4)		22-7 (4)		26-7 (4)		30-7 (4)		34-7 (4)		38-7 (4)		42-7 (4)	
Control	9.7±	0.7	10.1±	1.1	10.6±	1.1	10.6±	1.3	10.8±	1.3	11.2±	1.6	11.0±	1.6
1280 ppm	10.2±	1.5	10.7±	1.4	10.9±	1.6	11.0±	1.6	11.3±	1.7	12.1±	2.2*	11.5±	2.1
3200 ppm	9.7±	1.1	10.2±	1.8	10.6±	1.5	10.5±	1.6	10.6±	1.4	11.3±	2.1	10.6±	1.5
8000 ppm	9.7±	1.0	10.2±	2.4	10.1±	1.0*	10.2±	1.3	10.1±	1.1**	10.6±	1.6	10.1±	1.2*

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

Test of Dunnett

(HAN260)

BATS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 10

Group Name	Administration		week-day(effective)											
	46-7 (4)		50-7 (4)		54-7 (4)		58-7 (4)		62-7 (4)		66-7 (4)		70-7 (4)	
Control	11.3±	1.7	12.1±	1.8	11.8±	1.7	11.5±	1.6	12.5±	2.0	12.3±	1.6	12.4±	1.7
1280 ppm	12.3±	2.7	12.8±	2.2	12.6±	2.4	12.1±	2.1	13.2±	2.1	13.6±	2.4*	12.9±	1.9
3200 ppm	10.9±	2.0	11.5±	1.9	11.6±	1.9	11.3±	1.8	12.1±	2.0	12.2±	2.2	12.1±	1.9
8000 ppm	10.1±	1.1**	10.9±	1.7*	11.0±	1.4*	10.9±	1.3	11.5±	1.6*	11.3±	1.5*	11.2±	1.3**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 11

Group Name	Administration week-day(effective)						
	74-7(4)	78-7(4)	82-7(4)	86-7(4)	90-7(4)	94-7(4)	98-7(4)
Control	13.4± 1.7	13.7± 1.5	13.5± 1.6	13.4± 1.7	13.8± 2.2	13.4± 1.6	13.1± 2.5
1280 ppm	14.1± 2.1	14.3± 2.2	13.7± 2.1	13.6± 2.5	13.9± 2.7	13.4± 1.9	13.5± 1.8
3200 ppm	12.8± 2.1*	13.2± 2.2	12.5± 1.8*	12.8± 1.9	12.9± 2.0*	12.7± 1.9	12.9± 2.0
8000 ppm	11.9± 1.1**	12.5± 1.4**	11.9± 1.6**	12.3± 1.1**	12.5± 1.3**	12.2± 1.6**	12.2± 1.3**

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

Test of Dunnett

(HAN260)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
UNIT : g  
REPORT TYPE : A1 104  
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 12

Group Name	Administration week-day(effective)	
	102-7(4)	104-7(4)
Control	13.8± 1.9	13.6± 1.9
1280 ppm	14.0± 2.2	13.6± 2.4
3200 ppm	12.7± 2.1*	12.6± 2.4
8000 ppm	12.3± 1.5**	12.1± 2.0**

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

Test of Dunnett

(HAN260)

BATS 4

TABLE E 1

CHEMICAL INTAKE CHANGES: MALE

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
UNIT : g/kg/day  
REPORT TYPE : A1 104  
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 1

Group Name	Administration (weeks)													
	1		2		3		4		5		6		7	
Control	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000
1280 ppm	0.113±	0.003	0.099±	0.003	0.090±	0.003	0.083±	0.003	0.076±	0.003	0.072±	0.003	0.069±	0.003
3200 ppm	0.282±	0.009	0.247±	0.009	0.228±	0.007	0.211±	0.007	0.192±	0.007	0.181±	0.007	0.171±	0.007
8000 ppm	0.706±	0.025	0.615±	0.021	0.570±	0.020	0.538±	0.022	0.488±	0.017	0.462±	0.023	0.437±	0.020

(HAN300)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 2

Group Name	Administration		(weeks)											
	8		9		10		11		12		13		14	
Control	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000
1280 ppm	0.068±	0.004	0.066±	0.003	0.063±	0.003	0.062±	0.003	0.061±	0.003	0.060±	0.003	0.058±	0.004
3200 ppm	0.169±	0.007	0.163±	0.007	0.158±	0.007	0.153±	0.007	0.152±	0.007	0.148±	0.008	0.146±	0.008
8000 ppm	0.431±	0.015	0.418±	0.016	0.415±	0.020	0.394±	0.021	0.391±	0.021	0.384±	0.021	0.376±	0.020

(HAN300)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 3

Group Name	Administration (weeks)							
	18	22	26	30	34	38	42	
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1280 ppm	0.056± 0.004	0.056± 0.004	0.056± 0.005	0.053± 0.004	0.052± 0.005	0.051± 0.006	0.050± 0.004	
3200 ppm	0.137± 0.006	0.134± 0.007	0.133± 0.006	0.124± 0.017	0.124± 0.009	0.124± 0.014	0.118± 0.009	
8000 ppm	0.357± 0.027	0.350± 0.023	0.348± 0.029	0.331± 0.028	0.323± 0.027	0.317± 0.027	0.307± 0.026	

(HAN300)

BAIS 4



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 4

Group Name	Administration (weeks)							
	46	50	54	58	62	66	70	
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1280 ppm	0.047± 0.004	0.048± 0.005	0.047± 0.005	0.045± 0.005	0.048± 0.005	0.047± 0.004	0.047± 0.005	
3200 ppm	0.114± 0.007	0.113± 0.008	0.112± 0.011	0.108± 0.007	0.114± 0.009	0.112± 0.007	0.111± 0.008	
8000 ppm	0.296± 0.024	0.294± 0.023	0.296± 0.021	0.285± 0.025	0.300± 0.026	0.288± 0.024	0.292± 0.033	

(HAN300)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 5

Group Name	Administration (weeks)							
	74	78	82	86	90	94	98	
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1280 ppm	0.048± 0.005	0.049± 0.006	0.048± 0.005	0.047± 0.005	0.046± 0.005	0.044± 0.006	0.046± 0.006	
3200 ppm	0.111± 0.011	0.114± 0.010	0.112± 0.007	0.112± 0.011	0.109± 0.011	0.104± 0.018	0.110± 0.014	
8000 ppm	0.295± 0.031	0.304± 0.034	0.297± 0.036	0.298± 0.038	0.289± 0.047	0.298± 0.083	0.292± 0.039	

(HAN300)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
UNIT : g/kg/day  
REPORT TYPE : A1 104  
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 6

Group Name	Administration (weeks)	
	102	104
Control	0.000± 0.000	0.000± 0.000
1280 ppm	0.048± 0.009	0.049± 0.006
3200 ppm	0.112± 0.016	0.117± 0.015
8000 ppm	0.309± 0.045	0.317± 0.043

(HAN300)

BAIS 4

**TABLE E 2**

**CHEMICAL INTAKE CHANGES: FEMALE**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 7

Group Name	Administration (weeks)		3	4	5	6	7
	1	2					
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1280 ppm	0.118± 0.005	0.107± 0.006	0.102± 0.013	0.094± 0.005	0.089± 0.004	0.085± 0.006	0.080± 0.004
3200 ppm	0.291± 0.011	0.257± 0.012	0.258± 0.055	0.236± 0.009	0.221± 0.008	0.209± 0.008	0.203± 0.009
8000 ppm	0.742± 0.032	0.648± 0.035	0.624± 0.033	0.603± 0.035	0.565± 0.028	0.536± 0.030	0.514± 0.027

(HAN300)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 8

Group Name	Administration (weeks)													
	8		9		10		11		12		13		14	
Control	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000	0.000±	0.000
1280 ppm	0.079±	0.004	0.078±	0.003	0.076±	0.003	0.074±	0.004	0.076±	0.008	0.075±	0.007	0.074±	0.004
3200 ppm	0.197±	0.010	0.193±	0.009	0.189±	0.009	0.185±	0.010	0.186±	0.012	0.180±	0.011	0.182±	0.012
8000 ppm	0.505±	0.022	0.498±	0.025	0.489±	0.027	0.477±	0.024	0.475±	0.022	0.465±	0.028	0.457±	0.026

(HAN300)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 9

Group Name	Administration (weeks)							
	18	22	26	30	34	38	42	
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1280 ppm	0.072± 0.008	0.073± 0.009	0.073± 0.009	0.072± 0.008	0.072± 0.009	0.075± 0.012	0.070± 0.011	
3200 ppm	0.174± 0.015	0.177± 0.026	0.179± 0.021	0.174± 0.021	0.173± 0.016	0.180± 0.029	0.165± 0.018	
8000 ppm	0.457± 0.035	0.467± 0.101	0.452± 0.031	0.448± 0.048	0.434± 0.034	0.451± 0.061	0.417± 0.040	

(HAN300)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 10

Group Name	Administration (weeks)							
	46	50	54	58	62	66	70	
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000
1280 ppm	0.072± 0.015	0.074± 0.011	0.071± 0.011	0.067± 0.010	0.071± 0.010	0.071± 0.013	0.066± 0.009	
3200 ppm	0.168± 0.027	0.173± 0.024	0.169± 0.022	0.163± 0.020	0.172± 0.025	0.166± 0.025	0.163± 0.022	
8000 ppm	0.414± 0.033	0.438± 0.066	0.427± 0.041	0.418± 0.052	0.436± 0.054	0.413± 0.047	0.403± 0.051	

(HAN300)

BAIS 4



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 UNIT : g/kg/day  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 11

Group Name	Administration (weeks)									
	74	78	82	86	90	94	98			
Control	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000	0.000± 0.000		
1280 ppm	0.070± 0.008	0.068± 0.009	0.064± 0.010	0.063± 0.011	0.063± 0.012	0.060± 0.009	0.060± 0.008			
3200 ppm	0.167± 0.025	0.168± 0.025	0.156± 0.022	0.157± 0.021	0.155± 0.022	0.151± 0.022	0.152± 0.023			
8000 ppm	0.416± 0.049	0.422± 0.057	0.398± 0.056	0.405± 0.049	0.402± 0.046	0.384± 0.051	0.383± 0.046			

(HAN300)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
UNIT : g/kg/day  
REPORT TYPE : A1 104  
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 12

Group Name	Administration (weeks)	
	102	104
Control	0.000± 0.000	0.000± 0.000
1280 ppm	0.061± 0.009	0.059± 0.010
3200 ppm	0.150± 0.026	0.148± 0.027
8000 ppm	0.387± 0.047	0.383± 0.064

(HAN300)

BAIS 4

TABLE F 1

HEMATOLOGY: MALE

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
MEASURE. TIME : 1  
SEX : MALE

HEMATOLOGY (SUMMARY)  
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 1

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>9</sup> /μl	
Control	33	7.56±	1.25	12.9±	2.4	35.9±	5.4	47.9±	4.9	17.1±	1.6	35.7±	1.8	951±	217
1280 ppm	38	8.14±	1.14*	13.8±	2.4	38.0±	5.2	46.8±	2.4	16.9±	1.4	36.1±	2.0	976±	285
3200 ppm	39	8.43±	0.74**	14.5±	1.2**	39.7±	2.9**	47.1±	1.5	17.2±	0.7	36.6±	0.7	887±	131
8000 ppm	38	7.88±	0.89	13.4±	1.9	37.2±	4.1	47.4±	3.0	17.1±	1.7	35.9±	1.7	1018±	224

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
MEASURE. TIME : 1  
SEX : MALE

HEMATOLOGY (SUMMARY)  
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %	
Control	33	5.6±	4.9
1280 ppm	38	4.0±	2.7*
3200 ppm	39	3.4±	1.0**
8000 ppm	38	4.7±	2.2

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	WBC 1 O <sup>3</sup> /μℓ		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	33	9.83±	13.41	0±	1	45±	12	1±	1	0±	0	5±	2	40±	11	8±	22
1280 ppm	38	9.26±	13.09	1±	1	51±	11	2±	2	0±	0	6±	2	38±	10	3±	15
3200 ppm	39	6.62±	1.85	0±	0	49±	7	2±	1	0±	0	6±	2*	42±	7	1±	1
8000 ppm	38	8.02±	1.59**	0±	1	51±	9	2±	1	0±	0	5±	2	41±	9	1±	2
Significant difference ; * : P ≤ 0.05      ** : P ≤ 0.01      Test of Dunnett																	

(HCL070)

BATS 4

TABLE F 2

HEMATOLOGY: FEMALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

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>5</sup> /μl	
Control	42	8.03±	0.78	15.0±	1.6	40.0±	3.6	49.9±	1.6	18.7±	0.7	37.4±	1.1	671±	146
1280 ppm	44	7.81±	0.92	14.6±	1.8	39.4±	4.1	50.6±	2.3	18.8±	0.9	37.1±	1.4	694±	163
3200 ppm	46	7.91±	0.66*	14.9±	1.2	40.2±	2.8	50.9±	1.6**	18.8±	0.4	37.0±	0.8**	748±	181**
8000 ppm	39	7.62±	0.31**	14.5±	0.5**	39.3±	1.4**	51.5±	0.9**	19.0±	0.3*	36.8±	0.3**	771±	83**

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

Test of Dunnett

(HCL070)

BATS 4



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
MEASURE. TIME : 1  
SEX : FEMALE

HEMATOLOGY (SUMMARY)  
ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %	
Control	42	3.0±	1.7
1280 ppm	44	4.1±	5.2
3200 ppm	46	3.6±	2.4**
8000 ppm	39	4.2±	0.5**

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

Test of Dunnett

(HCL070)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

PAGE : 6

Group Name	NO. of Animals	WBC 10 <sup>9</sup> /μl		Differential N-BAND		WBC (%) N-SEG		EOSINO		BASO		MONO		LYMPHO		OTHER	
Control	42	3.09±	1.48	1±	1	43±	11	2±	1	0±	0	5±	2	48±	11	1±	3
1280 ppm	44	3.34±	1.81	1±	1	43±	11	1±	1	0±	0	5±	2	47±	13	3±	13
3200 ppm	46	3.27±	1.85	1±	1	41±	11	2±	1	0±	0	5±	2	52±	10	1±	1
8000 ppm	39	3.39±	1.58	1±	1	37±	10	2±	1	0±	0	5±	2	55±	9*	1±	4

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

\*\* :  $P \leq 0.01$

Test of Dunnett

(HCL070)

BAIS 4

**TABLE G 1**

**BIOCHEMISTRY: MALE**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

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	33	6.7±	0.4	2.7±	0.2	0.7±	0.1	0.19±	0.14	144±	20	195±	79	106±	82
1280 ppm	38	6.7±	0.4	2.8±	0.3	0.7±	0.1	0.15±	0.03	145±	17	181±	52	97±	42
3200 ppm	39	6.8±	0.4	2.8±	0.2	0.7±	0.1	0.16±	0.03	147±	21	201±	55	109±	52
8000 ppm	38	6.6±	0.3	2.8±	0.2	0.7±	0.1	0.15±	0.03	149±	17	219±	85	140±	100

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST IU/l		ALT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CK IU/l	
Control	33	284±	113	95±	85	40±	28	149±	87	188±	80	6±	5	126±	42
1280 ppm	38	261±	69	79±	24	34±	13	141±	45	196±	56	6±	3	117±	55
3200 ppm	39	286±	83	80±	83	32±	13	132±	50	170±	60	8±	5	112±	47
8000 ppm	38	308±	113	73±	28	32±	13	126±	35	196±	186	14±	7**	114±	54

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

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl		CREATININE mg/dl		SODIUM mEq/l		POTASSIUM mEq/l		CHLORIDE mEq/l		CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	33	19.4±	4.7	0.6±	0.1	143±	1	3.8±	0.5	106±	1	10.7±	0.4	4.3±	0.5
1280 ppm	38	18.7±	3.3	0.6±	0.1	143±	1	3.9±	0.3	106±	2	10.6±	0.3	4.3±	0.4
3200 ppm	39	19.8±	3.4	0.6±	0.1	142±	1	3.9±	0.3	106±	2	10.7±	0.4	4.2±	0.6
8000 ppm	38	25.0±	20.8*	0.7±	0.3	142±	1	4.1±	0.2**	105±	2	10.6±	0.6	5.0±	3.0*

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

Test of Dunnett

(HCL074)

BAIS 4

**TABLE G 2**

**BIOCHEMISTRY: FEMALE**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g /dl		ALBUMIN g /dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	42	6.9±	0.5	3.6±	0.4	1.1±	0.1	0.14±	0.04	143±	14	132±	44	87±	77
1280 ppm	44	6.9±	0.5	3.6±	0.4	1.1±	0.1	0.14±	0.03	143±	21	130±	32	71±	53
3200 ppm	46	7.0±	0.4	3.6±	0.2	1.1±	0.1	0.13±	0.02	146±	14	130±	28	58±	53
8000 ppm	39	7.1±	0.3	3.8±	0.3**	1.1±	0.1*	0.14±	0.02	145±	26	136±	23	54±	28

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

Test of Dunnett

(HCL074)

BAIS 4



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST IU/l		ALT IU/l		LDH IU/l		ALP IU/l		G-GTP IU/l		CK IU/l	
Control	42	243±	78	114±	89	48±	22	181±	67	118±	68	2±	2	87±	23
1280 ppm	44	239±	57	113±	53	47±	24	201±	105	106±	59	2±	1	102±	94
3200 ppm	46	239±	55	104±	40	42±	17	185±	76	116±	107	2±	1	84±	28
8000 ppm	39	252±	37	93±	36	41±	19	157±	67	93±	26	4±	6**	79±	17

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

\*\* :  $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)  
 ALL ANIMALS (105W)

REPORT TYPE : A1

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	42	19.1±	17.5	0.6±	0.6	142±	1	3.7±	0.5	104±	2	10.7±	0.6	4.4±	2.2
1280 ppm	44	16.7±	5.3	0.5±	0.1	142±	2	3.7±	0.4	105±	2	10.6±	0.5	3.9±	0.8
3200 ppm	46	16.4±	2.5	0.5±	0.1	142±	1	3.7±	0.4	105±	2	10.6±	0.4	4.0±	0.8
8000 ppm	39	16.4±	2.0	0.5±	0.1	142±	2	3.7±	0.4	104±	1	10.6±	0.3	3.9±	0.7

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

Test of Dunnett

(HCL074)

BATS 4

TABLE H 1

URINALYSIS: MALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE REPORT TYPE : A1

URINALYSIS

PAGE : 1

Group Name	NO. of Animals	pH							CHI	Protein						CHI	Glucose						CHI	Ketone body						CHI	Bilirubin				CHI
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	±	+	2+	3+	4+		-	+	2+	3+	
Control	33	0	5	3	11	11	3	0		0	0	0	0	20	13		33	0	0	0	0	0		30	3	0	0	0	0		32	0	0	1	
1280 ppm	38	0	1	5	11	15	6	0		0	0	0	0	23	15		38	0	0	0	0	0		33	5	0	0	0	0		38	0	0	0	
3200 ppm	39	0	1	4	5	14	15	0	*	0	0	0	0	26	13		39	0	0	0	0	0		35	4	0	0	0	0		39	0	0	0	
8000 ppm	39	0	3	1	15	17	3	0		0	0	0	1	23	15		39	0	0	0	0	0		36	3	0	0	0	0		39	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 MEASURE. TIME : 1  
 SEX : MALE REPORT TYPE : A1

URINALYSIS

PAGE : 2

Group Name	NO. of Animals	Occult blood					Urobilinogen				
		-	±	+	2+	3+	±	+	2+	3+	4+
Control	33	33	0	0	0	0	33	0	0	0	0
1280 ppm	38	38	0	0	0	0	38	0	0	0	0
3200 ppm	39	37	0	1	0	1	39	0	0	0	0
8000 ppm	39	36	0	0	1	2	39	0	0	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS 4

**TABLE H 2**

**URINALYSIS: FEMALE**

STUDY NO. : 0579

## URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE : 3

Group Name	NO. of Animals	pH							CHI	Protein					CHI	Glucose					CHI	Ketone body					CHI	Bilirubin				CHI		
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		—	±	+	2+	3+		4+	—	±	+	2+		3+	4+	—	±	+		2+	3+	4+	—		+	2+
Control	43	0	2	1	9	16	12	3		0	0	2	8	23	10		43	0	0	0	0	0		11	32	0	0	0	0		43	0	0	0
1280 ppm	45	0	2	9	13	6	13	2	*	0	0	4	11	14	16		45	0	0	0	0	0		14	31	0	0	0	0		45	0	0	0
3200 ppm	46	0	1	2	2	9	28	4	*	0	1	3	12	19	11		46	0	0	0	0	0		16	30	0	0	0	0		45	1	0	0
8000 ppm	40	0	4	4	8	12	9	3		0	0	1	8	18	13		40	0	0	0	0	0		18	22	0	0	0	0		40	0	0	0

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

Test of CHI SQUARE

(HCL101)

BAIS 4

STUDY NO. : 0579

URINALYSIS

ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE : 4

Group Name	NO. of Animals	Occult blood					CHI	Urobilinogen					CHI
		—	±	+	2+	3+		±	+	2+	3+	4+	
Control	43	39	0	1	0	3		43	0	0	0	0	
1280 ppm	45	44	0	0	1	0		45	0	0	0	0	
3200 ppm	46	45	1	0	0	0		46	0	0	0	0	
8000 ppm	40	39	0	0	0	1		40	0	0	0	0	

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

Test of CHI SQUARE

(HCL101)

BAIS 4



**TABLE I 1**

**GROSS FINDINGS: MALE: ALL ANIMALS**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

GROSS FINDINGS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control	1280 ppm	3200 ppm	8000 ppm
			50 (%)	50 (%)	50 (%)	50 (%)
skin/app	nodule		3 ( 6)	6 ( 12)	4 ( 8)	6 ( 12)
	scab		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
subcutis	hemorrhage		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
	jaundice		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
	mass		15 ( 30)	12 ( 24)	10 ( 20)	9 ( 18)
lung	white zone		2 ( 4)	2 ( 4)	1 ( 2)	0 ( 0)
	red zone		1 ( 2)	0 ( 0)	1 ( 2)	0 ( 0)
	nodule		2 ( 4)	3 ( 6)	1 ( 2)	0 ( 0)
lymph node	enlarged		2 ( 4)	1 ( 2)	1 ( 2)	2 ( 4)
spleen	enlarged		6 ( 12)	3 ( 6)	1 ( 2)	1 ( 2)
	nodule		0 ( 0)	1 ( 2)	0 ( 0)	2 ( 4)
	deformed		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
heart	white zone		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
tongue	nodule		0 ( 0)	1 ( 2)	2 ( 4)	0 ( 0)
forestomach	nodule		0 ( 0)	3 ( 6)	9 ( 18)	41 ( 82)
	ulcer		3 ( 6)	1 ( 2)	1 ( 2)	1 ( 2)
gl stomach	nodule		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	ulcer		2 ( 4)	0 ( 0)	1 ( 2)	0 ( 0)
	erosion		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
stomach	gas		0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)
small intes	nodule		0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)
	gas		0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

GROSS FINDINGS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control	1280 ppm	3200 ppm	8000 ppm
			50 (%)	50 (%)	50 (%)	50 (%)
large intes	gas		0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)
liver	enlarged		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	red zone		0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)
	nodule		1 ( 2)	4 ( 8)	1 ( 2)	2 ( 4)
	rough		2 ( 4)	1 ( 2)	0 ( 0)	0 ( 0)
	herniation		7 ( 14)	9 ( 18)	7 ( 14)	5 ( 10)
bile duct	dilated		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
pancreas	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
kidney	granular		7 ( 14)	3 ( 6)	9 ( 18)	10 ( 20)
urin bladd	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
	urine:marked retention		1 ( 2)	0 ( 0)	1 ( 2)	0 ( 0)
pituitary	enlarged		7 ( 14)	6 ( 12)	6 ( 12)	2 ( 4)
	white zone		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	red zone		3 ( 6)	2 ( 4)	1 ( 2)	3 ( 6)
	nodule		5 ( 10)	4 ( 8)	7 ( 14)	2 ( 4)
thyroid	enlarged		4 ( 8)	7 ( 14)	5 ( 10)	5 ( 10)
	nodule		1 ( 2)	1 ( 2)	1 ( 2)	1 ( 2)
adrenal	enlarged		3 ( 6)	3 ( 6)	1 ( 2)	1 ( 2)
testis	nodule		28 ( 56)	33 ( 66)	35 ( 70)	37 ( 74)
epididymis	nodule		1 ( 2)	0 ( 0)	0 ( 0)	1 ( 2)
prep/cli gl	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
brain	deformed		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

GROSS FINDINGS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		1280 ppm		3200 ppm		8000 ppm	
			50	(%)	50	(%)	50	(%)	50	(%)
spinal cord	red zone		1	( 2)	0	( 0)	0	( 0)	0	( 0)
eye	turbid		1	( 2)	0	( 0)	0	( 0)	0	( 0)
	white		4	( 8)	4	( 8)	3	( 6)	13	( 26)
	red zone		0	( 0)	0	( 0)	1	( 2)	0	( 0)
Zymbal gl	nodule		2	( 4)	0	( 0)	0	( 0)	0	( 0)
bone	nodule		1	( 2)	0	( 0)	0	( 0)	1	( 2)
mediastinum	nodule		1	( 2)	0	( 0)	0	( 0)	0	( 0)
peritoneum	nodule		1	( 2)	3	( 6)	4	( 8)	5	( 10)
	adhesion		0	( 0)	0	( 0)	0	( 0)	1	( 2)
retroperit	mass		1	( 2)	1	( 2)	1	( 2)	0	( 0)
	cyst		0	( 0)	1	( 2)	0	( 0)	0	( 0)
abdominal c	hemorrhage		0	( 0)	0	( 0)	0	( 0)	1	( 2)
	ascites		1	( 2)	1	( 2)	2	( 4)	4	( 8)
thoracic ca	pleural fluid		1	( 2)	1	( 2)	0	( 0)	1	( 2)
other	lip:nodule		0	( 0)	0	( 0)	1	( 2)	0	( 0)
whole body	anemic		0	( 0)	1	( 2)	1	( 2)	0	( 0)

(HPT080)

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**TABLE I 2**

**GROSS FINDINGS: MALE: DEAD AND MORIBUND ANIMALS**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

GROSS FINDINGS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		1280 ppm		3200 ppm		8000 ppm	
			17	(%)	12	(%)	11	(%)	11	(%)
skin/app	nodule		0	( 0)	1	( 8)	0	( 0)	0	( 0)
subcutis	hemorrhage		0	( 0)	1	( 8)	0	( 0)	0	( 0)
	jaundice		0	( 0)	0	( 0)	0	( 0)	1	( 9)
	mass		3	( 18)	1	( 8)	4	( 36)	4	( 36)
lung	white zone		0	( 0)	1	( 8)	1	( 9)	0	( 0)
	red zone		1	( 6)	0	( 0)	0	( 0)	0	( 0)
lymph node	enlarged		2	( 12)	1	( 8)	1	( 9)	2	( 18)
spleen	enlarged		3	( 18)	2	( 17)	1	( 9)	1	( 9)
	nodule		0	( 0)	0	( 0)	0	( 0)	2	( 18)
heart	white zone		0	( 0)	0	( 0)	0	( 0)	1	( 9)
tongue	nodule		0	( 0)	0	( 0)	1	( 9)	0	( 0)
forestomach	nodule		0	( 0)	1	( 8)	1	( 9)	4	( 36)
	ulcer		2	( 12)	0	( 0)	0	( 0)	1	( 9)
gl stomach	ulcer		1	( 6)	0	( 0)	1	( 9)	0	( 0)
	erosion		1	( 6)	0	( 0)	0	( 0)	0	( 0)
stomach	gas		0	( 0)	0	( 0)	2	( 18)	0	( 0)
small intes	gas		0	( 0)	0	( 0)	2	( 18)	0	( 0)
large intes	gas		0	( 0)	0	( 0)	2	( 18)	0	( 0)
liver	enlarged		1	( 6)	0	( 0)	0	( 0)	0	( 0)
	red zone		0	( 0)	0	( 0)	1	( 9)	0	( 0)
	nodule		0	( 0)	2	( 17)	0	( 0)	0	( 0)
	rough		1	( 6)	0	( 0)	0	( 0)	0	( 0)

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

GROSS FINDINGS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control	1280 ppm	3200 ppm	8000 ppm
			17 (%)	12 (%)	11 (%)	11 (%)
liver	herniation		3 ( 18)	3 ( 25)	2 ( 18)	2 ( 18)
kidney	granular		1 ( 6)	2 ( 17)	2 ( 18)	1 ( 9)
urin bladd	urine:marked retention		1 ( 6)	0 ( 0)	1 ( 9)	0 ( 0)
pituitary	enlarged		5 ( 29)	5 ( 42)	4 ( 36)	2 ( 18)
	white zone		1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)
	red zone		1 ( 6)	1 ( 8)	0 ( 0)	0 ( 0)
thyroid	enlarged		1 ( 6)	1 ( 8)	0 ( 0)	0 ( 0)
	nodule		0 ( 0)	0 ( 0)	1 ( 9)	0 ( 0)
adrenal	enlarged		2 ( 12)	0 ( 0)	0 ( 0)	0 ( 0)
testis	nodule		4 ( 24)	3 ( 25)	2 ( 18)	4 ( 36)
epididymis	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 9)
prep/cli gl	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 9)
spinal cord	red zone		1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)
eye	white		0 ( 0)	1 ( 8)	0 ( 0)	1 ( 9)
	red zone		0 ( 0)	0 ( 0)	1 ( 9)	0 ( 0)
Zymbal gl	nodule		2 ( 12)	0 ( 0)	0 ( 0)	0 ( 0)
bone	nodule		1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)
mediastinum	nodule		1 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)
peritoneum	nodule		0 ( 0)	1 ( 8)	3 ( 27)	3 ( 27)
	adhesion		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 9)
retroperit	mass		1 ( 6)	0 ( 0)	1 ( 9)	0 ( 0)
abdominal c	hemorrhage		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 9)

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

GROSS FINDINGS (SUMMARY)  
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control		1280 ppm		3200 ppm		8000 ppm	
			17	(%)	12	(%)	11	(%)	11	(%)
abdominal c	ascites		0	( 0)	1	( 8)	2	( 18)	2	( 18)
thoracic ca	pleural fluid		1	( 6)	1	( 8)	0	( 0)	1	( 9)
whole body	anemic		0	( 0)	1	( 8)	1	( 9)	0	( 0)

(HPT080)

BATS 4



**TABLE I 3**

**GROSS FINDINGS: MALE: SACRIFICED ANIMALS**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

GROSS FINDINGS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control		1280 ppm		3200 ppm		8000 ppm	
			33	(%)	38	(%)	39	(%)	39	(%)
skin/app	nodule		3	( 9)	5	( 13)	4	( 10)	6	( 15)
	scab		1	( 3)	0	( 0)	0	( 0)	0	( 0)
subcutis	mass		12	( 36)	11	( 29)	6	( 15)	5	( 13)
lung	white zone		2	( 6)	1	( 3)	0	( 0)	0	( 0)
	red zone		0	( 0)	0	( 0)	1	( 3)	0	( 0)
	nodule		2	( 6)	3	( 8)	1	( 3)	0	( 0)
spleen	enlarged		3	( 9)	1	( 3)	0	( 0)	0	( 0)
	nodule		0	( 0)	1	( 3)	0	( 0)	0	( 0)
	deformed		1	( 3)	0	( 0)	0	( 0)	0	( 0)
tongue	nodule		0	( 0)	1	( 3)	1	( 3)	0	( 0)
forestomach	nodule		0	( 0)	2	( 5)	8	( 21)	37	( 95)
	ulcer		1	( 3)	1	( 3)	1	( 3)	0	( 0)
gl stomach	nodule		1	( 3)	0	( 0)	0	( 0)	0	( 0)
	ulcer		1	( 3)	0	( 0)	0	( 0)	0	( 0)
small intes	nodule		0	( 0)	2	( 5)	0	( 0)	0	( 0)
liver	red zone		0	( 0)	0	( 0)	1	( 3)	0	( 0)
	nodule		1	( 3)	2	( 5)	1	( 3)	2	( 5)
	rough		1	( 3)	1	( 3)	0	( 0)	0	( 0)
	herniation		4	( 12)	6	( 16)	5	( 13)	3	( 8)
bile duct	dilated		1	( 3)	0	( 0)	0	( 0)	0	( 0)
pancreas	nodule		0	( 0)	0	( 0)	0	( 0)	1	( 3)
kidney	granular		6	( 18)	1	( 3)	7	( 18)	9	( 23)

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

GROSS FINDINGS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	Control	1280 ppm	3200 ppm	8000 ppm
			33 (%)	38 (%)	39 (%)	39 (%)
urin bladd	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)
pituitary	enlarged		2 ( 6)	1 ( 3)	2 ( 5)	0 ( 0)
	red zone		2 ( 6)	1 ( 3)	1 ( 3)	3 ( 8)
thyroid	nodule		5 ( 15)	4 ( 11)	7 ( 18)	2 ( 5)
	enlarged		3 ( 9)	6 ( 16)	5 ( 13)	5 ( 13)
	nodule		1 ( 3)	1 ( 3)	0 ( 0)	1 ( 3)
adrenal	enlarged		1 ( 3)	3 ( 8)	1 ( 3)	1 ( 3)
testis	nodule		24 ( 73)	30 ( 79)	33 ( 85)	33 ( 85)
epididymis	nodule		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
brain	deformed		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)
eye	turbid		1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
	white		4 ( 12)	3 ( 8)	3 ( 8)	12 ( 31)
bone	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)
peritoneum	nodule		1 ( 3)	2 ( 5)	1 ( 3)	2 ( 5)
retroperit	mass		0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)
	cyst		0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)
abdominal c	ascites		1 ( 3)	0 ( 0)	0 ( 0)	2 ( 5)
other	lip:nodule		0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)

**TABLE I 4**

**GROSS FINDINGS: FEMALE: ALL ANIMALS**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control	1280 ppm	3200 ppm	8000 ppm
			50 (%)	50 (%)	50 (%)	50 (%)
skin/app	nodule		3 ( 6)	1 ( 2)	1 ( 2)	0 ( 0)
	scab		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
subcutis	mass		11 ( 22)	10 ( 20)	7 ( 14)	5 ( 10)
lung	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
lymph node	enlarged		1 ( 2)	0 ( 0)	1 ( 2)	1 ( 2)
spleen	enlarged		4 ( 8)	1 ( 2)	0 ( 0)	1 ( 2)
	atrophic		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
	nodule		1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)
forestomach	nodule		1 ( 2)	1 ( 2)	5 ( 10)	32 ( 64)
gl stomach	nodule		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
small intes	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
liver	nodule		0 ( 0)	1 ( 2)	0 ( 0)	1 ( 2)
	herniation		6 ( 12)	8 ( 16)	7 ( 14)	9 ( 18)
pancreas	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
kidney	enlarged		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
	atrophic		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	granular		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	hydronephrosis		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
urin bladd	urine:marked retention		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
pituitary	enlarged		4 ( 8)	4 ( 8)	5 ( 10)	6 ( 12)
	red zone		4 ( 8)	5 ( 10)	3 ( 6)	7 ( 14)
	nodule		11 ( 22)	6 ( 12)	6 ( 12)	8 ( 16)

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name NO. of Animals	Control	1280 ppm	3200 ppm	8000 ppm
			50 (%)	50 (%)	50 (%)	50 (%)
pituitary	cyst		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
thyroid	enlarged		1 ( 2)	1 ( 2)	2 ( 4)	2 ( 4)
	nodule		1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)
	cyst		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
adrenal	enlarged		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
ovary	enlarged		2 ( 4)	0 ( 0)	2 ( 4)	0 ( 0)
	nodule		0 ( 0)	1 ( 2)	1 ( 2)	0 ( 0)
	cyst		3 ( 6)	3 ( 6)	2 ( 4)	3 ( 6)
uterus	nodule		6 ( 12)	6 ( 12)	5 ( 10)	6 ( 12)
	cyst		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	dilated lumen		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
brain	red zone		1 ( 2)	2 ( 4)	0 ( 0)	1 ( 2)
eye	turbid		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
	white		4 ( 8)	3 ( 6)	6 ( 12)	3 ( 6)
peritoneum	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
retroperit	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
abdominal c	ascites		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)
mesenterium	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
thoracic ca	pleural fluid		1 ( 2)	0 ( 0)	0 ( 0)	3 ( 6)
other	upper jaw:nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)

**TABLE I 5**

**GROSS FINDINGS: FEMALE: DEAD AND MORIBUND ANIMALS**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control 8 (%)	1280 ppm 5 (%)	3200 ppm 4 (%)	8000 ppm 10 (%)
subcutis	mass		3 ( 38)	0 ( 0)	1 ( 25)	3 ( 30)
lymph node	enlarged		1 ( 13)	0 ( 0)	1 ( 25)	1 ( 10)
spleen	enlarged		4 ( 50)	1 ( 20)	0 ( 0)	1 ( 10)
	atrophic		0 ( 0)	0 ( 0)	1 ( 25)	0 ( 0)
	nodule		1 ( 13)	1 ( 20)	0 ( 0)	0 ( 0)
forestomach	nodule		0 ( 0)	0 ( 0)	0 ( 0)	3 ( 30)
small intes	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)
liver	herniation		2 ( 25)	2 ( 40)	1 ( 25)	1 ( 10)
pancreas	nodule		0 ( 0)	0 ( 0)	1 ( 25)	0 ( 0)
kidney	enlarged		0 ( 0)	0 ( 0)	1 ( 25)	0 ( 0)
urin bladd	urine:marked retention		1 ( 13)	0 ( 0)	0 ( 0)	0 ( 0)
pituitary	enlarged		3 ( 38)	1 ( 20)	1 ( 25)	2 ( 20)
	red zone		0 ( 0)	1 ( 20)	0 ( 0)	1 ( 10)
	nodule		0 ( 0)	0 ( 0)	1 ( 25)	1 ( 10)
	cyst		0 ( 0)	1 ( 20)	0 ( 0)	0 ( 0)
thyroid	enlarged		1 ( 13)	0 ( 0)	0 ( 0)	0 ( 0)
ovary	enlarged		2 ( 25)	0 ( 0)	0 ( 0)	0 ( 0)
	nodule		0 ( 0)	0 ( 0)	1 ( 25)	0 ( 0)
uterus	nodule		1 ( 13)	1 ( 20)	2 ( 50)	3 ( 30)
brain	red zone		1 ( 13)	2 ( 40)	0 ( 0)	1 ( 10)
eye	white		0 ( 0)	0 ( 0)	1 ( 25)	0 ( 0)
peritoneum	nodule		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

GROSS FINDINGS (SUMMARY)  
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name	Control	1280 ppm	3200 ppm	8000 ppm
		NO. of Animals	8 (%)	5 (%)	4 (%)	10 (%)
abdominal c	ascites		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 10)
thoracic ca	pleural fluid		1 ( 13)	0 ( 0)	0 ( 0)	3 ( 30)

(HPT080)

BAIS 4

**TABLE I 6**

**GROSS FINDINGS: FEMALE: SACRIFICED ANIMALS**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control	1280 ppm	3200 ppm	8000 ppm
			42 (%)	45 (%)	46 (%)	40 (%)
skin/app	nodule		3 ( 7)	1 ( 2)	1 ( 2)	0 ( 0)
	scab		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)
subcutis	mass		8 ( 19)	10 ( 22)	6 ( 13)	2 ( 5)
lung	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
forestomach	nodule		1 ( 2)	1 ( 2)	5 ( 11)	29 ( 73)
gl stomach	nodule		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
liver	nodule		0 ( 0)	1 ( 2)	0 ( 0)	1 ( 3)
	herniation		4 ( 10)	6 ( 13)	6 ( 13)	8 ( 20)
kidney	atrophic		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	granular		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	hydronephrosis		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
pituitary	enlarged		1 ( 2)	3 ( 7)	4 ( 9)	4 ( 10)
	red zone		4 ( 10)	4 ( 9)	3 ( 7)	6 ( 15)
	nodule		11 ( 26)	6 ( 13)	5 ( 11)	7 ( 18)
thyroid	enlarged		0 ( 0)	1 ( 2)	2 ( 4)	2 ( 5)
	nodule		1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)
	cyst		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
adrenal	enlarged		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
ovary	enlarged		0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)
	nodule		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
	cyst		3 ( 7)	3 ( 7)	2 ( 4)	3 ( 8)
uterus	nodule		5 ( 12)	5 ( 11)	3 ( 7)	3 ( 8)

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

GROSS FINDINGS (SUMMARY)  
SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	Control	1280 ppm	3200 ppm	8000 ppm
			42 (%)	45 (%)	46 (%)	40 (%)
uterus	cyst		1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)
	dilated lumen		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)
eye	turbid		0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)
	white		4 ( 10)	3 ( 7)	5 ( 11)	3 ( 8)
retroperit	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
mesenterium	nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)
other	upper jaw:nodule		0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)

(HPT080)

BAIS 4

TABLE J 1

ORGAN WEIGHT, ABSOLUTE: MALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE  
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)  
 SURVIVAL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	Body Weight	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	33	390± 43	0.102± 0.157	3.452± 2.157	1.248± 0.110	1.524± 0.583	2.967± 0.282
1280 ppm	38	394± 35	0.179± 0.583	3.045± 1.294	1.261± 0.075	1.427± 0.196	2.966± 0.312
3200 ppm	39	403± 38	0.077± 0.023	3.062± 1.076	1.273± 0.080	1.395± 0.119	3.139± 0.370*
8000 ppm	39	371± 38	0.072± 0.020*	3.227± 1.331	1.280± 0.131	1.373± 0.125	3.348± 0.555**

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

Test of Dunnett

(HCL040)

BATS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE  
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)  
SURVIVAL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	33	1.457±	1.472	11.842±	1.793	2.063±	0.057
1280 ppm	38	1.071±	0.322	11.400±	1.518	2.077±	0.045
3200 ppm	39	1.040±	0.185	11.756±	1.364	2.082±	0.048
8000 ppm	39	1.125±	0.143	11.590±	1.395	2.072±	0.046

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

Test of Dunnett

(HCL040)

BAIS 4

**TABLE J 2**

**ORGAN WEIGHT, ABSOLUTE: FEMALE**



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE  
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)  
SURVIVAL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	Body Weight	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	42	277 ± 33	0.076 ± 0.010	0.183 ± 0.295	0.905 ± 0.083	0.953 ± 0.066	1.841 ± 0.165
1280 ppm	45	280 ± 32	0.073 ± 0.010	0.361 ± 1.084	0.885 ± 0.076	0.950 ± 0.130	1.854 ± 0.183
3200 ppm	46	259 ± 31*	0.096 ± 0.182**	0.187 ± 0.307	0.869 ± 0.079	0.925 ± 0.071	1.812 ± 0.156
8000 ppm	40	240 ± 31**	0.069 ± 0.007**	0.151 ± 0.137	0.866 ± 0.055	0.939 ± 0.166	1.834 ± 0.186

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

Test of Dunnett

(HCL040)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE  
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)  
SURVIVAL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	42	0.629±	0.302	6.952±	1.077	1.879±	0.042
1280 ppm	45	0.644±	0.433	6.828±	1.047	1.881±	0.051
3200 ppm	46	0.559±	0.107	6.341±	0.779**	1.881±	0.044
8000 ppm	40	0.702±	0.147**	6.502±	0.812	1.866±	0.057

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

Test of Dunnett

(HCL040)

BAIS 4

TABLE K 1

ORGAN WEIGHT, RELATIVE: MALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE  
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)  
 SURVIVAL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	33	390± 43	0.027± 0.041	0.883± 0.539	0.323± 0.036	0.395± 0.156	0.773± 0.140
1280 ppm	38	394± 35	0.046± 0.153	0.775± 0.337	0.322± 0.033	0.364± 0.054	0.759± 0.119
3200 ppm	39	403± 38	0.019± 0.006	0.760± 0.263	0.319± 0.037	0.351± 0.068*	0.783± 0.093
8000 ppm	39	371± 38	0.020± 0.007	0.861± 0.337	0.350± 0.059	0.379± 0.097	0.927± 0.282**

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE  
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)  
SURVIVAL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	33	0.376 ± 0.385	3.055 ± 0.455	0.536 ± 0.064
1280 ppm	38	0.275 ± 0.086	2.907 ± 0.413	0.531 ± 0.048
3200 ppm	39	0.259 ± 0.043*	2.926 ± 0.310	0.522 ± 0.057
8000 ppm	39	0.305 ± 0.034	3.150 ± 0.408	0.567 ± 0.082*

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

Test of Dunnett

(HCL042)

BATS 4

TABLE K 2

ORGAN WEIGHT, RELATIVE: FEMALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE  
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)  
 SURVIVAL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	42	277± 33	0.028± 0.005	0.065± 0.095	0.332± 0.056	0.349± 0.050	0.674± 0.097
1280 ppm	45	280± 32	0.026± 0.004	0.123± 0.366	0.319± 0.035	0.341± 0.040	0.668± 0.076
3200 ppm	46	259± 31*	0.040± 0.087	0.071± 0.101	0.339± 0.040	0.362± 0.049	0.708± 0.090*
8000 ppm	40	240± 31**	0.029± 0.006	0.064± 0.060	0.365± 0.041**	0.399± 0.107**	0.778± 0.153**

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

Test of Dunnett

(HCL042)

BAIS 4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE  
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)  
SURVIVAL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	42	0.233± 0.122	2.532± 0.415	0.691± 0.101
1280 ppm	45	0.231± 0.143	2.455± 0.356	0.680± 0.074
3200 ppm	46	0.219± 0.050	2.457± 0.196	0.738± 0.100**
8000 ppm	40	0.294± 0.053**	2.739± 0.427**	0.791± 0.116**

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

Test of Dunnett

(HCL042)

BAIS 4



TABLE L 1

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:MALE: ALL ANIMALS

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study				Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																					
skin/app	mineralization	<50>				1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	inflammation	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	squamous cell hyperplasia	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )
subcutis	epidermal cyst	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )
	sebaceous hyperplasia	0	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 )	( 2 )	( 0 )	( 0 )
	ulcer:squamous epithelium	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 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hemorrhage	<50>				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 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	fibrosis:focal	0	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
(Respiratory system)																		
nasal cavit	thrombus		<50>				<50>				<50>				<50>			
			0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	
	eosinophilic change:olfactory epithelium		14 ( 28 )	5 ( 10 )	0 ( 0 )	0 ( 0 )	16 ( 32 )	5 ( 10 )	0 ( 0 )	0 ( 0 )	12 ( 24 )	3 ( 6 )	0 ( 0 )	0 ( 0 )	9 ( 18 )	6 ( 12 )	0 ( 0 )	0 ( 0 )
	eosinophilic change:respiratory epithelium		1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	5 ( 10 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	inflammation:foreign body		15 ( 30 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	16 ( 32 )	4 ( 8 )	0 ( 0 )	0 ( 0 )	19 ( 38 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	12 ( 24 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	respiratory metaplasia:olfactory epithelium		2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	respiratory metaplasia:gland		8 ( 16 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	7 ( 14 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	6 ( 12 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	9 ( 18 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
lung	congestion		<50>				<50>				<50>				<50>			
			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 ( 2 )	0 ( 0 )	0 ( 0 )	
	edema		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	
Grade	1 : Slight      2 : Moderate      3 : Marked      4 : Severe																	
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
( c )	c : b / a * 100																	
Significant difference ;    * : P ≤ 0.05    ** : P ≤ 0.01    Test of Chi Square																		

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 3

		Group Name No. of Animals on Study	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																		
lung			<50>				<50>				<50>				<50>			
	inflammatory infiltration		1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	bronchiolar-alveolar cell hyperplasia		0 ( 0)	2 ( 4)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)
(Hematopoietic system)																		
bone marrow			<50>				<50>				<50>				<50>			
	granulation		3 ( 6)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	increased hematopoiesis		7 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 12)	0 ( 0)	0 ( 0)	0 ( 0)	8 ( 16)	0 ( 0)	0 ( 0)	0 ( 0)	9 ( 18)	0 ( 0)	0 ( 0)	0 ( 0)
lymph node			<50>				<50>				<50>				<50>			
	lymphadenitis		0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)
spleen			<50>				<50>				<50>				<50>			
	congestion		0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$  Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name	Control				1280 ppm				3200 ppm				8000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
spleen			<50>				<50>				<50>				<50>			
	necrosis:focal		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	deposit of hemosiderin		7	1	0	0	4	3	0	0	6	3	0	0	6	1	0	0
			( 14 )	( 2 )	( 0 )	( 0 )	( 8 )	( 6 )	( 0 )	( 0 )	( 12 )	( 6 )	( 0 )	( 0 )	( 12 )	( 2 )	( 0 )	( 0 )
	fibrosis:focal		0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	
	extramedullary hematopoiesis		3	0	0	0	2	4	0	0	1	4	0	0	5	1	1	0
			( 6 )	( 0 )	( 0 )	( 0 )	( 4 )	( 8 )	( 0 )	( 0 )	( 2 )	( 8 )	( 0 )	( 0 )	( 10 )	( 2 )	( 2 )	( 0 )
	engorgement of erythrocyte		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 )	( 6 )	( 0 )	( 0 )	( 0 )
(Circulatory system)																		
heart			<50>				<50>				<50>				<50>			
	thrombus		0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )
	myocardial fibrosis		21	0	0	0	20	2	0	0	18	0	0	0	19	1	0	0
			( 42 )	( 0 )	( 0 )	( 0 )	( 40 )	( 4 )	( 0 )	( 0 )	( 36 )	( 0 )	( 0 )	( 0 )	( 38 )	( 2 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 5

		Group Name No. of Animals on Study	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50				
Organ	Findings	Grade	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	
(Digestive system)																			
tooth	dysplasia		<50>				<50>				<50>				<50>				
		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
tongue	inflammatory infiltration		<50>				<50>				<50>				<50>				
		0 ( 0 )	0 ( 0 )	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 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	squamous cell hyperplasia		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
		arteritis		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 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
stomach	erosion:forestomach		<50>				<50>				<50>				<50>				
		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	ulcer:forestomach		5 ( 10 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	1 ( 2 )	0 ( 0 )	0 ( 0 )
		hyperplasia:forestomach		1 ( 2 )	3 ( 6 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	10 ( 20 )	4 ( 8 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	13 ( 26 )	24 ( 48 )	8 ( 16 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
ALL ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study				Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																					
stomach		<50>								<50>				<50>				<50>			
	erosion:glandular stomach	6	0	0	0					0	0	0	0 *	4	0	0	0	1	0	0	0
		( 12)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	ulcer:glandular stomach	1	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	hyperplasia:glandular stomach	1	0	0	0					2	0	0	0	0	0	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	mineralization:glandular stomach	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)	( 2)	( 0)	( 0)
liver		<50>								<50>				<50>				<50>			
	herniation	7	0	0	0					7	0	0	0	7	0	0	0	5	0	0	0
		( 14)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)	( 14)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	peliosis-like lesion	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)	( 2)	( 0)	( 0)	( 0)
	necrosis:central	1	0	1	0					0	2	0	0	1	1	1	0	1	2	0	0
		( 2)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 2)	( 2)	( 2)	( 0)	( 2)	( 4)	( 0)	( 0)
	necrosis:focal	1	0	0	0					1	1	0	0	0	0	0	0	0	1	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
b : Number of animals with lesion  
( c ) c : b / a \* 100  
Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
ALL ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name	Control				1280 ppm				3200 ppm				8000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Digestive system}																		
liver			<50>				<50>				<50>				<50>			
	fatty change		0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	granulation		2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	clear cell focus		7	1	0	0	6	0	0	0	5	1	0	0	7	1	0	0
			( 14 )	( 2 )	( 0 )	( 0 )	( 12 )	( 0 )	( 0 )	( 0 )	( 10 )	( 2 )	( 0 )	( 0 )	( 14 )	( 2 )	( 0 )	( 0 )
	acidophilic cell focus		3	1	0	0	2	0	0	0	3	0	0	0	1	0	0	0
			( 6 )	( 2 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
basophilic cell focus		3	0	0	0	2	0	0	0	1	0	0	0	5	0	0	0	
		( 6 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	
spongiosis hepatitis		2	0	0	0	2	0	0	0	0	1	0	0	3	1	0	0	
		( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 6 )	( 2 )	( 0 )	( 0 )	
bile duct hyperplasia		7	41	0	0	7	42	0	0	6	43	0	0	24	24	0	0 **	
		( 14 )	( 82 )	( 0 )	( 0 )	( 14 )	( 84 )	( 0 )	( 0 )	( 12 )	( 86 )	( 0 )	( 0 )	( 48 )	( 48 )	( 0 )	( 0 )	
hepatocellular hypertrophy:central		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 )	( 2 )	( 0 )	( 0 )	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
b : Number of animals with lesion  
( c ) c : b / a \* 100  
Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square



STUDY NO. : 0579  
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver	focal fatty change		<50>				<50>				<50>				<50>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )
bile duct	duct ectasia		<50>				<50>				<50>				<50>			
			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
pancreas	atrophy		<50>				<50>				<50>				<50>			
			19	5	0	0	18	2	0	0	13	3	0	0	23	1	0	0
			( 38 )	( 10 )	( 0 )	( 0 )	( 36 )	( 4 )	( 0 )	( 0 )	( 26 )	( 6 )	( 0 )	( 0 )	( 46 )	( 2 )	( 0 )	( 0 )
	arteritis		<50>				<50>				<50>				<50>			
			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	islet cell hyperplasia		<50>				<50>				<50>				<50>			
			1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0
			( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )
(Urinary system)																		
kidney	chronic nephropathy		<50>				<50>				<50>				<50>			
			14	20	10	0	16	24	8	0	9	24	15	0	9	22	14	1
			( 28 )	( 40 )	( 20 )	( 0 )	( 32 )	( 48 )	( 16 )	( 0 )	( 18 )	( 48 )	( 30 )	( 0 )	( 18 )	( 44 )	( 28 )	( 2 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 9

		Group Name No. of Animals on Study	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
{Urinary system}																		
kidney	mineralization:pelvis		<50>				<50>				<50>				<50>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	mineralization:cortex		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	urothelial hyperplasia:pelvis		0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0
			( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 2 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	atypical tubule hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
urin bladd	inflammatory polyp		<50>				<50>				<50>				<50>			
			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 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	nodular hyperplasia:transitional epithelium		0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )
{Endocrine system}																		
pituitary	cyst		<50>				<50>				<50>				<50>			
			0	1	0	0	2	1	0	0	0	2	0	0	0	0	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
ALL ANIMALS (0-105W)

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study				Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																					
pituitary		<50>				<50>				<50>				<50>				<50>			
	hyperplasia	8	7	0	0	5	7	0	0	12	3	0	0	6	9	0	0	12	18	0	0
		( 16)	( 14)	( 0)	( 0)	( 10)	( 14)	( 0)	( 0)	( 24)	( 6)	( 0)	( 0)	( 12)	( 18)	( 0)	( 0)	( 12)	( 18)	( 0)	( 0)
	Rathke pouch	1	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)
	aberrant craniopharyngeal tissue	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)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
thyroid		<50>				<50>				<50>				<50>				<50>			
	ultimibranhial body remanet	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	follicular hyperplasia	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	4	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)
	C-cell hyperplasia	9	3	0	0	8	3	0	0	15	2	0	0	15	4	0	0	30	8	0	0
		( 18)	( 6)	( 0)	( 0)	( 16)	( 6)	( 0)	( 0)	( 30)	( 4)	( 0)	( 0)	( 30)	( 8)	( 0)	( 0)	( 30)	( 8)	( 0)	( 0)
adrenal		<50>				<50>				<50>				<50>				<50>			
	necrosis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
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STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 11

		Group Name No. of Animals on Study	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
{Endocrine system}																			
adrenal			<50>				<50>				<50>				<50>				
	hyperplasia:cortical cell		0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
			( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyperplasia:medulla		2	1	0	0	2	2	0	0	2	2	0	0	2	3	0	0	
			( 4 )	( 2 )	( 0 )	( 0 )	( 4 )	( 4 )	( 0 )	( 0 )	( 4 )	( 4 )	( 0 )	( 0 )	( 4 )	( 6 )	( 0 )	( 0 )	
	focal fatty change:cortex		1	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0	
			( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	
{Reproductive system}																			
testis			<50>				<50>				<50>				<50>				
	mineralization		2	2	0	0	0	0	0	0	4	0	0	0	1	0	0	0	
			( 4 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	
	arteritis		5	3	0	0	4	1	0	0	9	0	0	0	4	3	0	0	
			( 10 )	( 6 )	( 0 )	( 0 )	( 8 )	( 2 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )	( 0 )	( 8 )	( 6 )	( 0 )	( 0 )	
	interstitial cell hyperplasia		11	0	0	0	12	0	0	0	6	2	0	0	15	1	0	0	
			( 22 )	( 0 )	( 0 )	( 0 )	( 24 )	( 0 )	( 0 )	( 0 )	( 12 )	( 4 )	( 0 )	( 0 )	( 30 )	( 2 )	( 0 )	( 0 )	
epididymis			<50>				<50>				<50>				<50>				
	arteritis		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 )	( 2 )	( 0 )	( 0 )	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
ALL ANIMALS (0-105W)

PAGE : 12

		Group Name No. of Animals on Study	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50				
Organ	Findings	Grade	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	
(Reproductive system)																			
epididymis			<50>				<50>				<50>				<50>				
	spermatogenic granuloma		0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
prostate			<50>				<50>				<50>				<50>				
	inflammation		0 ( 0 )	4 ( 8 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	hyperplasia		6 ( 12 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	6 ( 12 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	6 ( 12 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
mammary gl			<50>				<50>				<50>				<50>				
	galactoceles		0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
(Special sense organs/appendage)																			
eye			<50>				<50>				<50>				<50>				
	cataract		10 ( 20 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	7 ( 14 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	6 ( 12 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	13 ( 26 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	retinal atrophy		13 ( 26 )	7 ( 14 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	4 ( 8 )	2 ( 4 )	0 ** ( 0 )	1 ( 2 )	2 ( 4 )	2 ( 4 )	0 ** ( 0 )	2 ( 4 )	8 ( 16 )	3 ( 6 )	0 ** ( 0 )	0 ** ( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
b : Number of animals with lesion  
( c ) c : b / a \* 100  
Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 13

		Group Name No. of Animals on Study	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
{Special sense organs/appendage}																		
eye			<50>				<50>				<50>				<50>			
	keratitis		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 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	squamous cell metaplasia:cornea		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
nasolacr d			<50>				<50>				<50>				<50>			
	inflammation		1	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
			( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
{Musculoskeletal system}																		
muscle			<50>				<50>				<50>				<50>			
	atrophy		0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
			( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )
bone			<50>				<50>				<50>				<50>			
	osteosclerosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
{Body cavities}																		
mediastinum			<50>				<50>				<50>				<50>			
	hemorrhage		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

(Body cavities)

retroperit			<50>				<50>				<50>				<50>			
cyst			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$  Test of Chi Square

(HPT150)

BAIS4

**TABLE L 2**

**HISTOPATHOLOGICAL FINDINGS:**

**NON-NEOPLASTIC LESIONS:**

**MALE: DEAD AND MORIBUND ANIMALS**



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study Grade				Control 17				1280 ppm 12				3200 ppm 11				8000 ppm 11			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																					
skin/app	epidermal cyst	<17>				<12>				<11>				<11>				<11>			
		0	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 )	( 9 )	( 0 )	( 0 )
subcutis	hemorrhage	<17>				<12>				<11>				<11>				<11>			
		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 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	fibrosis:focal	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Respiratory system)																					
nasal cavit	thrombus	<17>				<12>				<11>				<11>				<11>			
		0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )
	eosinophilic change:olfactory epithelium	5	1	0	0	2	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		( 29 )	( 6 )	( 0 )	( 0 )	( 17 )	( 8 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	inflammation:foreign body	3	0	0	0	3	1	0	0	3	0	0	0	1	0	0	0	1	0	0	0
		( 18 )	( 0 )	( 0 )	( 0 )	( 25 )	( 8 )	( 0 )	( 0 )	( 27 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 2

		Group Name No. of Animals on Study	Control 17				1280 ppm 12				3200 ppm 11				8000 ppm 11			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																		
nasal cavit			<17>				<12>				<11>				<11>			
	respiratory metaplasia:olfactory epithelium		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	respiratory metaplasia:gland		3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
			( 18)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 27)	( 0)	( 0)	( 0)
lung			<17>				<12>				<11>				<11>			
	congestion		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)	( 9)	( 0)	( 0)
	edema		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)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	inflammatory infiltration		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)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
[Hematopoietic system]																		
bone marrow			<17>				<12>				<11>				<11>			
	increased hematopoiesis		2	0	0	0	2	0	0	0	7	0	0	0 *	4	0	0	0
			( 12)	( 0)	( 0)	( 0)	( 17)	( 0)	( 0)	( 0)	( 64)	( 0)	( 0)	( 0)	( 36)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade	Control 17				1280 ppm 12				3200 ppm 11				8000 ppm 11			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
lymph node			<17>				<12>				<11>				<11>			
	lymphadenitis		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 )	( 9 )	( 0 )	( 0 )
spleen			<17>				<12>				<11>				<11>			
	necrosis:focal		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	deposit of hemosiderin		5	1	0	0	2	3	0	0	2	3	0	0	1	1	0	0
			( 29 )	( 6 )	( 0 )	( 0 )	( 17 )	( 25 )	( 0 )	( 0 )	( 18 )	( 27 )	( 0 )	( 0 )	( 9 )	( 9 )	( 0 )	( 0 )
	extramedullary hematopoiesis		1	0	0	0	1	3	0	0	1	4	0	0 *	1	1	1	0
			( 6 )	( 0 )	( 0 )	( 0 )	( 8 )	( 25 )	( 0 )	( 0 )	( 9 )	( 36 )	( 0 )	( 0 )	( 9 )	( 9 )	( 9 )	( 0 )
(Circulatory system)																		
heart			<17>				<12>				<11>				<11>			
	thrombus		0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )
	myocardial fibrosis		9	0	0	0	2	1	0	0	4	0	0	0	2	1	0	0
			( 53 )	( 0 )	( 0 )	( 0 )	( 17 )	( 8 )	( 0 )	( 0 )	( 36 )	( 0 )	( 0 )	( 0 )	( 18 )	( 9 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Control No. of Animals on Study Grade				1280 ppm 12				3200 ppm 11				8000 ppm 11			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
tongue		<17>				<12>				<11>				<11>			
	inflammatory infiltration	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 )	( 9 )	( 0 )
stomach		<17>				<12>				<11>				<11>			
	erosion:forestomach	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	ulcer:forestomach	4	0	0	0	0	1	0	0	1	0	0	0	2	1	0	0
		( 24 )	( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )	( 18 )	( 9 )	( 0 )	( 0 )
	hyperplasia:forestomach	1	2	0	0	0	1	0	0	3	2	0	0	3	4	1	0 *
		( 6 )	( 12 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 27 )	( 18 )	( 0 )	( 0 )	( 27 )	( 36 )	( 9 )	( 0 )
	erosion:glandular stomach	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		( 12 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	ulcer:glandular stomach	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyperplasia:glandular stomach	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
liver		<17>				<12>				<11>				<11>			
	herniation	3	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
		( 18 )	( 0 )	( 0 )	( 0 )	( 17 )	( 0 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
b b : Number of animals with lesion  
( c ) c : b / a \* 100  
Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study Grade				Control 17				1280 ppm 12				3200 ppm 11				8000 ppm 11			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																					
liver		<17>				<12>				<11>				<11>							
	necrosis:central	1	0	1	0	0	2	0	0	1	1	1	0	1	2	0	0	1	2	0	0
		( 6)	( 0)	( 6)	( 0)	( 0)	( 17)	( 0)	( 0)	( 9)	( 9)	( 9)	( 0)	( 9)	( 18)	( 0)	( 0)	( 9)	( 18)	( 0)	( 0)
	necrosis:focal	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
		( 6)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)
	fatty change	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 6)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
pancreas	granulation	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 6)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	basophilic cell focus	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)	( 9)	( 0)	( 0)	( 0)
	bile duct hyperplasia	4	11	0	0	3	8	0	0	4	6	0	0	8	2	0	0	8	2	0	0 *
		( 24)	( 65)	( 0)	( 0)	( 25)	( 67)	( 0)	( 0)	( 36)	( 55)	( 0)	( 0)	( 73)	( 18)	( 0)	( 0)	( 73)	( 18)	( 0)	( 0)
	hepatocellular hypertrophy:central	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)
pancreas		<17>				<12>				<11>				<11>							
	atrophy	4	0	0	0	2	0	0	0	1	1	0	0	1	0	0	0	1	0	0	0
		( 24)	( 0)	( 0)	( 0)	( 17)	( 0)	( 0)	( 0)	( 9)	( 9)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 6

		Group Name No. of Animals on Study Grade	Control 17				1280 ppm 12				3200 ppm 11				8000 ppm 11				
Organ	Findings		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	
(Digestive system)																			
pancreas			<17>				<12>				<11>				<11>				
	arteritis		0 ( 0 )	1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	islet cell hyperplasia		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 9 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
(Urinary system)																			
kidney			<17>				<12>				<11>				<11>				
	chronic nephropathy		6 ( 35 )	5 ( 29 )	1 ( 6 )	0 ( 0 )	7 ( 58 )	1 ( 8 )	2 ( 17 )	0 ( 0 )	5 ( 45 )	3 ( 27 )	1 ( 9 )	0 ( 0 )	6 ( 55 )	0 ( 0 )	1 ( 9 )	0 ( 0 )	0 ( 0 )
	mineralization:pelvis		1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	mineralization:cortex		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 8 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
urin bladd			<17>				<12>				<11>				<11>				
	nodular hyperplasia:transitional epithelium		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 8 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 9 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 7

		Group Name No. of Animals on Study	Control 17				1280 ppm 12				3200 ppm 11				8000 ppm 11				
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Endocrine system)																			
pituitary			<17>				<12>				<11>				<11>				
	hyperplasia		3 ( 18 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 8 )	0 ( 0 )	0 ( 0 )	1 ( 9 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
thyroid			<17>				<12>				<11>				<11>				
	ultimibranhial body remanet		1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	follicular hyperplasia		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 9 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	C-cell hyperplasia		0 ( 0 )	2 ( 12 )	0 ( 0 )	0 ( 0 )	2 ( 17 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 9 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 27 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
adrenal			<17>				<12>				<11>				<11>				
	necrosis		0 ( 0 )	0 ( 0 )	1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	hyperplasia:cortical cell		0 ( 0 )	1 ( 6 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 9 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	hyperplasia:medulla		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 8 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 9 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 9 )	0 ( 0 )	0 ( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade	Control 17				1280 ppm 12				3200 ppm 11				8000 ppm 11			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
adrenal	focal fatty change:cortex		<17>				<12>				<11>				<11>			
			0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Reproductive system)																		
testis	mineralization		<17>				<12>				<11>				<11>			
			1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	arteritis		<17>				<12>				<11>				<11>			
			2	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			( 12 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )
	interstitial cell hyperplasia		<17>				<12>				<11>				<11>			
			3	0	0	0	3	0	0	0	2	0	0	0	3	1	0	0
			( 18 )	( 0 )	( 0 )	( 0 )	( 25 )	( 0 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )	( 0 )	( 27 )	( 9 )	( 0 )	( 0 )
prostate	inflammation		<17>				<12>				<11>				<11>			
			0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 24 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyperplasia		<17>				<12>				<11>				<11>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 9

		Group Name	Control				1280 ppm				3200 ppm				8000 ppm			
		No. of Animals on Study	17				12				11				11			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Organ	Findings		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<hr/>																		
(Special sense organs/appendage)																		
eye			<17>				<12>				<11>				<11>			
	cataract		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )
	retinal atrophy		1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
			( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )
	keratitis		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 )	( 9 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
nasolacr d			<17>				<12>				<11>				<11>			
	inflammation		1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
			( 6 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
<hr/>																		
(Musculoskeletal system)																		
muscle			<17>				<12>				<11>				<11>			
	atrophy		0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
			( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )
bone			<17>				<12>				<11>				<11>			
	osteosclerosis		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 10

Organ	Findings	Group Name				Control				1280 ppm				3200 ppm				8000 ppm			
		No. of Animals on Study				17				12				11				11			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
						(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Body cavities)																					
mediastinum	hemorrhage	<17>				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 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$  Test of Chi Square

(HPT150)

BAIS4

TABLE L 3

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

MALE: SACRIFICED ANIMALS

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
SACRIFICED ANIMALS (105W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study				Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																					
skin/app	mineralization	<33>				1	0	0	0	<38>				<39>				<39>			
		( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	inflammation	0	2	0	0	( 0 )	( 6 )	( 0 )	( 0 )	0	0	0	0	( 0 )	( 0 )	( 0 )	( 0 )	0	0	0	0
		( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	squamous cell hyperplasia	0	0	0	0	( 0 )	( 0 )	( 0 )	( 0 )	0	1	0	0	( 0 )	( 0 )	( 0 )	( 0 )	0	1	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )
subcutis	epidermal cyst	0	0	0	0	( 0 )	( 0 )	( 0 )	( 0 )	0	1	0	0	( 0 )	( 1 )	( 0 )	( 0 )	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	sebaceous hyperplasia	0	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 )	( 3 )	( 0 )	( 0 )
	ulcer:squamous epithelium	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 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
nasal cavit	fibrosis:focal	<33>				0	0	0	0	<38>				<39>				<39>			
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Respiratory system)																					
nasal cavit	eosinophilic change:olfactory epithelium	<33>				9	4	0	0	<38>				<39>				<39>			
		( 27 )	( 12 )	( 0 )	( 0 )	( 27 )	( 12 )	( 0 )	( 0 )	( 37 )	( 11 )	( 0 )	( 0 )	( 26 )	( 8 )	( 0 )	( 0 )	( 23 )	( 15 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
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( c ) c : b / a \* 100  
Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																					
nasal cavit		<33>				<38>				<39>				<39>							
	eosinophilic change:respiratory epithelium	1	0	0	0	5	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
		( 3)	( 0)	( 0)	( 0)	( 13)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)
	inflammation:foreign body	12	0	0	0	13	3	0	0	16	2	0	0	11	0	0	0	28	0	0	0
		( 36)	( 0)	( 0)	( 0)	( 34)	( 8)	( 0)	( 0)	( 41)	( 5)	( 0)	( 0)	( 28)	( 0)	( 0)	( 0)	( 28)	( 0)	( 0)	( 0)
	respiratory metaplasia:olfactory epithelium	1	0	0	0	1	0	0	0	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)
	respiratory metaplasia:gland	5	0	0	0	7	0	0	0	6	0	0	0	6	0	0	0	15	0	0	0
		( 15)	( 0)	( 0)	( 0)	( 18)	( 0)	( 0)	( 0)	( 15)	( 0)	( 0)	( 0)	( 15)	( 0)	( 0)	( 0)	( 15)	( 0)	( 0)	( 0)
lung		<33>				<38>				<39>				<39>							
	inflammatory infiltration	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 3)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	bronchiolar-alveolar cell hyperplasia	0	2	0	0	1	0	0	0	1	0	0	0	3	0	0	0	8	0	0	0
		( 0)	( 6)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)
(Hematopoietic system)																					
bone marrow		<33>				<38>				<39>				<39>							
	granulation	3	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 9)	( 3)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 3

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																					
bone marrow		<33>				<38>				<39>				<39>				<39>			
	increased hematopoiesis	5	0	0	0	4	0	0	0	1	0	0	0	5	0	0	0	5	0	0	0
		( 15)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 13)	( 0)	( 0)	( 0)	( 13)	( 0)	( 0)	( 0)
lymph node		<33>				<38>				<39>				<39>				<39>			
	lymphadenitis	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)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
spleen		<33>				<38>				<39>				<39>				<39>			
	congestion	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	deposit of hemosiderin	2	0	0	0	2	0	0	0	4	0	0	0	5	0	0	0	5	0	0	0
		( 6)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 13)	( 0)	( 0)	( 0)	( 13)	( 0)	( 0)	( 0)
	fibrosis:focal	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)
	extramedullary hematopoiesis	2	0	0	0	1	1	0	0	0	0	0	0	4	0	0	0	4	0	0	0
		( 6)	( 0)	( 0)	( 0)	( 3)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	engorgement of erythrocyte	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)	( 8)	( 0)	( 0)	( 0)	( 8)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Circulatory system)																					
heart	myocardial fibrosis	<33>				<38>				<39>				<39>				<39>			
		12	0	0	0	18	1	0	0	14	0	0	0	17	0	0	0	17	0	0	0
		( 36)	( 0)	( 0)	( 0)	( 47)	( 3)	( 0)	( 0)	( 36)	( 0)	( 0)	( 0)	( 44)	( 0)	( 0)	( 0)	( 44)	( 0)	( 0)	( 0)
(Digestive system)																					
tooth	dysplasia	<33>				<38>				<39>				<39>				<39>			
		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)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
tongue	squamous cell hyperplasia	<33>				<38>				<39>				<39>				<39>			
		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)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	arteritis	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)
stomach	ulcer:forestomach	<33>				<38>				<39>				<39>				<39>			
		1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	hyperplasia:forestomach	0	1	0	0	2	0	0	0	7	2	0	0 *	10	20	7	0 **	10	20	7	0 **
		( 0)	( 3)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 18)	( 5)	( 0)	( 0)	( 26)	( 51)	( 18)	( 0)	( 26)	( 51)	( 18)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 5

Organ	Findings	Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
stomach		<33>				<38>				<39>				<39>			
	erosion:glandular stomach	4	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
		( 12 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	hyperplasia:glandular stomach	1	0	0	0	1	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 )
	mineralization:glandular stomach	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 )	( 3 )	( 0 )	( 0 )
liver		<33>				<38>				<39>				<39>			
	herniation	4	0	0	0	5	0	0	0	5	0	0	0	3	0	0	0
		( 12 )	( 0 )	( 0 )	( 0 )	( 13 )	( 0 )	( 0 )	( 0 )	( 13 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )
	peliosis-like lesion	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 )	( 3 )	( 0 )	( 0 )	( 0 )
	necrosis:focal	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	granulation	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	clear cell focus	7	1	0	0	6	0	0	0	5	1	0	0	7	1	0	0
		( 21 )	( 3 )	( 0 )	( 0 )	( 16 )	( 0 )	( 0 )	( 0 )	( 13 )	( 3 )	( 0 )	( 0 )	( 18 )	( 3 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
liver		<33>				<38>				<39>				<39>				<39>			
	acidophilic cell focus	3	1	0	0	2	0	0	0	3	0	0	0	1	0	0	0	1	0	0	0
		( 9 )	( 3 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	basophilic cell focus	3	0	0	0	2	0	0	0	1	0	0	0	4	0	0	0	4	0	0	0
		( 9 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )
	spongiosis hepatitis	2	0	0	0	2	0	0	0	0	1	0	0	3	1	0	0	3	1	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 8 )	( 3 )	( 0 )	( 0 )	( 8 )	( 3 )	( 0 )	( 0 )
	bile duct hyperplasia	3	30	0	0	4	34	0	0	2	37	0	0	16	22	0	0 **	16	22	0	0 **
		( 9 )	( 91 )	( 0 )	( 0 )	( 11 )	( 89 )	( 0 )	( 0 )	( 5 )	( 95 )	( 0 )	( 0 )	( 41 )	( 56 )	( 0 )	( 0 )	( 41 )	( 56 )	( 0 )	( 0 )
	focal fatty change	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )
bile duct		<33>				<38>				<39>				<39>				<39>			
	duct ectasia	0	1	0	0	0	0	0	0	0	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 )	( 0 )	( 0 )	( 0 )
pancreas		<33>				<38>				<39>				<39>				<39>			
	atrophy	15	5	0	0	16	2	0	0	12	2	0	0	22	1	0	0	22	1	0	0
		( 45 )	( 15 )	( 0 )	( 0 )	( 42 )	( 5 )	( 0 )	( 0 )	( 31 )	( 5 )	( 0 )	( 0 )	( 56 )	( 3 )	( 0 )	( 0 )	( 56 )	( 3 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																					
pancreas	islet cell hyperplasia	<33>				<38>				<39>				<39>				<39>			
		1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
		( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )
(Urinary system)																					
kidney	chronic nephropathy	<33>				<38>				<39>				<39>				<39>			
		8	15	9	0	9	23	6	0	4	21	14	0	3	22	13	1	3	22	13	1
		( 24 )	( 45 )	( 27 )	( 0 )	( 24 )	( 61 )	( 16 )	( 0 )	( 10 )	( 54 )	( 36 )	( 0 )	( 8 )	( 56 )	( 33 )	( 3 )	( 8 )	( 56 )	( 33 )	( 3 )
	mineralization:pelvis	<33>				<38>				<39>				<39>				<39>			
		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 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	urothelial hyperplasia:pelvis	<33>				<38>				<39>				<39>				<39>			
		0	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	0	0
		( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 3 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	atypical tubule hyperplasia	<33>				<38>				<39>				<39>				<39>			
		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
urin bladd	inflammatory polyp	<33>				<38>				<39>				<39>				<39>			
		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 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																					
urin bladd		<33>				<38>				<39>				<39>				<39>			
	nodular hyperplasia:transitional epithelium	0	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 )	( 3 )	( 0 )	( 0 )
(Endocrine system)																					
pituitary		<33>				<38>				<39>				<39>				<39>			
	cyst	0	1	0	0	2	1	0	0	0	2	0	0	0	2	0	0	0	0	0	0
		( 0 )	( 3 )	( 0 )	( 0 )	( 5 )	( 3 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyperplasia	5	7	0	0	5	6	0	0	11	3	0	0	6	9	0	0	6	9	0	0
		( 15 )	( 21 )	( 0 )	( 0 )	( 13 )	( 16 )	( 0 )	( 0 )	( 28 )	( 8 )	( 0 )	( 0 )	( 15 )	( 23 )	( 0 )	( 0 )	( 15 )	( 23 )	( 0 )	( 0 )
	Rathke pouch	1	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
		( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	aberrant craniopharyngeal tissue	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 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
thyroid		<33>				<38>				<39>				<39>				<39>			
	ultimibranhial body remanet	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 )	( 3 )	( 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  
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 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 9

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																					
thyroid		<33>				<38>				<39>				<39>				<39>			
	follicular hyperplasia	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	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 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)
	C-cell hyperplasia	9 ( 27)	1 ( 3)	0 ( 0)	0 ( 0)	6 ( 16)	3 ( 8)	0 ( 0)	0 ( 0)	14 ( 36)	2 ( 5)	0 ( 0)	0 ( 0)	12 ( 31)	4 ( 10)	0 ( 0)	0 ( 0)				
adrenal		<33>				<38>				<39>				<39>				<39>			
	hyperplasia:cortical cell	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)
	hyperplasia:medulla	2 ( 6)	1 ( 3)	0 ( 0)	0 ( 0)	1 ( 3)	2 ( 5)	0 ( 0)	0 ( 0)	1 ( 3)	2 ( 5)	0 ( 0)	0 ( 0)	2 ( 5)	2 ( 5)	0 ( 0)	0 ( 0)				
	focal fatty change:cortex	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)

(Reproductive system)

testis		<33>				<38>				<39>				<39>				<39>			
	mineralization	1 ( 3)	2 ( 6)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)				

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 10

Organ	Findings	Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																	
testis		<33>				<38>				<39>				<39>			
	arteritis	3 ( 9 )	3 ( 9 )	0 ( 0 )	0 ( 0 )	3 ( 8 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	9 ( 23 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 8 )	3 ( 8 )	0 ( 0 )	0 ( 0 )
	interstitial cell hyperplasia	8 ( 24 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	9 ( 24 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	4 ( 10 )	2 ( 5 )	0 ( 0 )	0 ( 0 )	12 ( 31 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
epididymis		<33>				<38>				<39>				<39>			
	arteritis	0 ( 0 )	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 ( 3 )	0 ( 0 )	0 ( 0 )
	spermatogenic granuloma	0 ( 0 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
prostate		<33>				<38>				<39>				<39>			
	inflammation	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 5 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	hyperplasia	5 ( 15 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	3 ( 8 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	6 ( 15 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	6 ( 15 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
mammary gl		<33>				<38>				<39>				<39>			
	galactocele	0 ( 0 )	1 ( 3 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade				Control 33				1280 ppm 38				3200 ppm 39				8000 ppm 39			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																					
eye		<33>				<38>				<39>				<39>				<39>			
	cataract	10	0	0	0	6	0	0	0	6	0	0	0	12	0	0	0	12	0	0	0
		( 30)	( 0)	( 0)	( 0)	( 16)	( 0)	( 0)	( 0)	( 15)	( 0)	( 0)	( 0)	( 31)	( 0)	( 0)	( 0)	( 31)	( 0)	( 0)	( 0)
	retinal atrophy	12	7	0	0	2	4	1	0 **	1	2	2	0 **	2	7	3	0 **	2	7	3	0 **
		( 36)	( 21)	( 0)	( 0)	( 5)	( 11)	( 3)	( 0)	( 3)	( 5)	( 5)	( 0)	( 5)	( 18)	( 8)	( 0)	( 5)	( 18)	( 8)	( 0)
	squamous cell metaplasia:cornea	1	0	0	0	0	0	0	0	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)	( 0)	( 0)	( 0)	( 0)
nasolacr d		<33>				<38>				<39>				<39>				<39>			
	inflammation	0	0	0	0	1	0	0	0	0	0	0	0	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)
(Body cavities)																					
retroperit		<33>				<38>				<39>				<39>				<39>			
	cyst	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)	( 3)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

TABLE L 4

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

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																		
skin/app			<50>				<50>				<50>				<50>			
	squamous cell hyperplasia		0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	scab		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 )	( 2 )	( 0 )	( 0 )	( 0 )
	epidermal cyst		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Respiratory system)																		
nasal cavit			<50>				<50>				<50>				<50>			
	thrombus		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	goblet cell hyperplasia		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 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	eosinophilic change:olfactory epithelium		8	32	2	0	12	33	2	0	13	30	1	0	18	18	1	0 *
			( 16 )	( 64 )	( 4 )	( 0 )	( 24 )	( 66 )	( 4 )	( 0 )	( 26 )	( 60 )	( 2 )	( 0 )	( 36 )	( 36 )	( 2 )	( 0 )
	eosinophilic change:respiratory epithelium		16	0	0	0	16	0	0	0	14	0	0	0	4	0	0	0 **
			( 32 )	( 0 )	( 0 )	( 0 )	( 32 )	( 0 )	( 0 )	( 0 )	( 28 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 16

Organ	Findings	Group Name	Control				1280 ppm				3200 ppm				8000 ppm			
		No. of Animals on Study	50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit	inflammation:foreign body		<50>				<50>				<50>				<50>			
		0	0	0	0	4	0	0	0	1	0	0	0	1	0	0	0	
		( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	
respiratory metaplasia:gland	8	0	0	0	5	0	0	0	9	0	0	0	6	0	0	0		
	( 16 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )	( 0 )	( 12 )	( 0 )	( 0 )	( 0 )		
lung	congestion		<50>				<50>				<50>				<50>			
		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 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	
edema	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )		
accumulation of foamy cells	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )		
bronchiolar-alveolar cell hyperplasia	1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0		
	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )		
inflammation:foreign body	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 )	( 2 )	( 0 )	( 0 )	( 0 )		
{Hematopoietic system}																		
bone marrow	granulation		<50>				<50>				<50>				<50>			
		5	0	0	0	1	2	0	0	6	1	0	0	2	2	0	0	
		( 10 )	( 0 )	( 0 )	( 0 )	( 2 )	( 4 )	( 0 )	( 0 )	( 12 )	( 2 )	( 0 )	( 0 )	( 4 )	( 4 )	( 0 )	( 0 )	

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 17

		Group Name No. of Animals on Study	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
Organ	Findings	Grade	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
(Hematopoietic system)																		
bone marrow			<50>				<50>				<50>				<50>			
	increased hematopoiesis		4 ( 8 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	6 ( 12 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	4 ( 8 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
spleen			<50>				<50>				<50>				<50>			
	congestion		0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
	deposit of hemosiderin		21 ( 42 )	13 ( 26 )	0 ( 0 )	0 ( 0 )	24 ( 48 )	15 ( 30 )	0 ( 0 )	0 ( 0 )	23 ( 46 )	20 ( 40 )	0 ( 0 )	0 ( 0 )	24 ( 48 )	20 ( 40 )	0 ( 0 )	0 ( 0 ) *
	extramedullary hematopoiesis		10 ( 20 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	14 ( 28 )	4 ( 8 )	0 ( 0 )	0 ( 0 )	9 ( 18 )	2 ( 4 )	0 ( 0 )	0 ( 0 )	13 ( 26 )	6 ( 12 )	0 ( 0 )	0 ( 0 )
	engorgement of erythrocyte		0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	5 ( 10 )	0 ( 0 )	0 ( 0 )	0 ( 0 )
(Circulatory system)																		
heart			<50>				<50>				<50>				<50>			
	myocardial fibrosis		9 ( 18 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	5 ( 10 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	6 ( 12 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	7 ( 14 )	0 ( 0 )	0 ( 0 )	0 ( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study				Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																					
tongue	arteritis	<50>				2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
stomach	ulcer:forestomach	<50>				0	1	0	0	1	0	0	0	1	0	0	0	1	2	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 4 )	( 0 )	( 0 )
	hyperplasia:forestomach	2	0	0	0	2	0	0	0	1	1	0	0	5	4	0	0	16	24	0	0 **
		( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )	( 10 )	( 8 )	( 0 )	( 0 )	( 32 )	( 48 )	( 0 )	( 0 )
	erosion:glandular stomach	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	hyperplasia:glandular stomach	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 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	mineralization:glandular stomach	0	1	0	0	0	1	0	0	0	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 )
liver	herniation	<50>				6	0	0	0	8	0	0	0	7	0	0	0	9	0	0	0
		( 12 )	( 0 )	( 0 )	( 0 )	( 12 )	( 0 )	( 0 )	( 0 )	( 16 )	( 0 )	( 0 )	( 0 )	( 14 )	( 0 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$  Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 19

Organ	Findings	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
liver		<50>				<50>				<50>				<50>			
	peliosis-like lesion	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	necrosis:focal	1	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
	fatty change	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	granulation	13	1	1	0	10	1	0	0	11	0	0	0	7	0	0	0
		( 26 )	( 2 )	( 2 )	( 0 )	( 20 )	( 2 )	( 0 )	( 0 )	( 22 )	( 0 )	( 0 )	( 0 )	( 14 )	( 0 )	( 0 )	( 0 )
	clear cell focus	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	basophilic cell focus	25	0	0	0	28	0	0	0	20	3	0	0	23	1	0	0
		( 50 )	( 0 )	( 0 )	( 0 )	( 56 )	( 0 )	( 0 )	( 0 )	( 40 )	( 6 )	( 0 )	( 0 )	( 46 )	( 2 )	( 0 )	( 0 )
	bile duct hyperplasia	18	0	0	0	11	1	0	0	10	0	0	0	5	2	0	0 **
		( 36 )	( 0 )	( 0 )	( 0 )	( 22 )	( 2 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )	( 10 )	( 4 )	( 0 )	( 0 )
	focal fatty change	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 20

		Group Name No. of Animals on Study	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
Organ	Findings	Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
{Digestive system}																		
pancreas			<50>				<50>				<50>				<50>			
	atrophy		1	1	0	0	4	2	0	0	3	1	0	0	3	2	0	0
			( 2 )	( 2 )	( 0 )	( 0 )	( 8 )	( 4 )	( 0 )	( 0 )	( 6 )	( 2 )	( 0 )	( 0 )	( 6 )	( 4 )	( 0 )	( 0 )
	islet cell hyperplasia		1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
			( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )
{Urinary system}																		
kidney			<50>				<50>				<50>				<50>			
	cyst		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	chronic nephropathy		28	5	0	1	29	4	1	0	30	5	0	0	29	6	1	0
			( 56 )	( 10 )	( 0 )	( 2 )	( 58 )	( 8 )	( 2 )	( 0 )	( 60 )	( 10 )	( 0 )	( 0 )	( 58 )	( 12 )	( 2 )	( 0 )
	dilatation:tubular lumen		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
atypical tubule hyperplasia		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	
dilated pelvis		0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
ALL ANIMALS (0-105W)

PAGE : 21

Organ	Findings	Group Name No. of Animals on Study				Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																					
pituitary		<50>								<50>								<50>			
	angiectasis	1	0	0	0	( 2 )	( 0 )	( 0 )	( 0 )	1	0	0	0	( 2 )	( 2 )	( 0 )	( 0 )	0	1	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )
	cyst	1	0	0	0	( 2 )	( 0 )	( 0 )	( 0 )	2	2	0	0	( 4 )	( 4 )	( 0 )	( 0 )	2	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 4 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
	hyperplasia	8	4	0	0	( 16 )	( 8 )	( 0 )	( 0 )	12	9	0	0	( 12 )	( 16 )	( 0 )	( 0 )	7	9	0	0
		( 16 )	( 8 )	( 0 )	( 0 )	( 24 )	( 18 )	( 0 )	( 0 )	( 24 )	( 18 )	( 0 )	( 0 )	( 12 )	( 16 )	( 0 )	( 0 )	( 14 )	( 18 )	( 0 )	( 0 )
	Rathke pouch	2	0	0	0	( 4 )	( 0 )	( 0 )	( 0 )	0	0	0	0	( 0 )	( 0 )	( 0 )	( 0 )	1	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
thyroid		<50>								<50>								<50>			
	C-cell hyperplasia	15	4	0	0	( 30 )	( 8 )	( 0 )	( 0 )	9	2	0	0	( 18 )	( 4 )	( 0 )	( 0 )	8	5	0	0
		( 30 )	( 8 )	( 0 )	( 0 )	( 18 )	( 4 )	( 0 )	( 0 )	( 18 )	( 4 )	( 0 )	( 0 )	( 16 )	( 10 )	( 0 )	( 0 )	( 20 )	( 8 )	( 0 )	( 0 )
adrenal		<50>								<50>								<50>			
	peliosis-like lesion	1	1	0	0	( 2 )	( 2 )	( 0 )	( 0 )	1	0	0	0	( 2 )	( 0 )	( 0 )	( 0 )	0	1	0	0
		( 2 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )
	necrosis:focal	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 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
b : Number of animals with lesion  
( c ) c : b / a \* 100  
Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
ALL ANIMALS (0-105W)

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
adrenal			<50>				<50>				<50>				<50>			
	hyperplasia:medulla		0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
			<50>				<50>				<50>				<50>			
	focal fatty change:cortex		2	0	0	0	3	0	0	0	0	0	0	0	2	1	0	0
			( 4 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )
(Reproductive system)																		
ovary			<50>				<50>				<50>				<50>			
	cyst		1	2	0	0	1	1	0	0	0	1	0	0	2	0	0	0
			( 2 )	( 4 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
uterus			<50>				<50>				<50>				<50>			
	dilatation		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 )	( 2 )	( 0 )	( 0 )
			<50>				<50>				<50>				<50>			
	decidual change		0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
			<50>				<50>				<50>				<50>			
	cystic endometrial hyperplasia		1	0	0	0	3	0	0	0	3	0	0	0	0	1	0	0
			( 2 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
b : Number of animals with lesion  
( c ) c : b / a \* 100  
Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 23

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				1280 ppm 50				3200 ppm 50				8000 ppm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																		
mammary gl	galactoceles		<50>				<50>				<50>				<50>			
			0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0
			( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Special sense organs/appendage)																		
eye	cataract		<50>				<50>				<50>				<50>			
			4	0	0	0	3	0	0	0	6	0	0	0	3	0	0	0
			( 8 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 12 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )
	retinal atrophy		27	4	1	0	11	4	0	0 **	6	0	5	0 **	15	3	1	0
			( 54 )	( 8 )	( 2 )	( 0 )	( 22 )	( 8 )	( 0 )	( 0 )	( 12 )	( 0 )	( 10 )	( 0 )	( 30 )	( 6 )	( 2 )	( 0 )
	iritis		0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
Harder gl	lymphocytic infiltration		<50>				<50>				<50>				<50>			
			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
nasolacr d	inflammation		<50>				<50>				<50>				<50>			
			5	3	0	0	3	1	0	0	7	2	0	0	2	1	0	0
			( 10 )	( 6 )	( 0 )	( 0 )	( 6 )	( 2 )	( 0 )	( 0 )	( 14 )	( 4 )	( 0 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 24

Organ	Findings	Group Name				Control				1280 ppm				3200 ppm				8000 ppm			
		No. of Animals on Study				50				50				50				50			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
						(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

(Musculoskeletal system)

bone	osteosclerosis	<50>				<50>				<50>				<50>				<50>			
		7	4	0	0	4	4	1	0	1	2	1	0	1	0	0	0	0	0	0	0 **
		( 14)	( 8)	( 0)	( 0)	( 8)	( 8)	( 2)	( 0)	( 2)	( 4)	( 2)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe

< a > a : Number of animals examined at the site

b b : Number of animals with lesion

( c ) c : b / a \* 100

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

(HPT150)

BAIS4

TABLE L 5

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

FEMALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade				Control 8				1280 ppm 5				3200 ppm 4				8000 ppm 10			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																					
nasal cavit		< 8>				< 5>				< 4>				<10>							
	thrombus	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 13 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	eosinophilic change:olfactory epithelium	3	4	0	0	0	3	0	0	1	0	0	0	2	1	0	0 *	( 38 )	( 50 )	( 0 )	( 0 )
lung	eosinophilic change:respiratory epithelium	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	( 38 )	( 0 )	( 0 )	( 0 )
		( 38 )	( 0 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	respiratory metaplasia:gland	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 )	( 25 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
bone marrow		< 8>				< 5>				< 4>				<10>							
	congestion	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 )	( 25 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	edema	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	( 0 )	( 0 )	( 0 )	( 0 )
granulation		( 0 )	( 0 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	inflammation:foreign body	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	( 0 )	( 0 )	( 0 )	( 0 )
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
		< 8>				< 5>				< 4>				<10>							
granulation		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	( 0 )	( 0 )	( 0 )	( 0 )
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
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Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
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HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 8				1280 ppm 5				3200 ppm 4				8000 ppm 10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																		
bone marrow	increased hematopoiesis		< 8>				< 5>				< 4>				<10>			
			2	0	0	0	2	0	0	0	1	0	0	0	4	0	0	0
			( 25)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)	( 25)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)
spleen	deposit of hemosiderin		< 8>				< 5>				< 4>				<10>			
			2	2	0	0	2	1	0	0	2	0	0	0	2	3	0	0
			( 25)	( 25)	( 0)	( 0)	( 40)	( 20)	( 0)	( 0)	( 50)	( 0)	( 0)	( 0)	( 20)	( 30)	( 0)	( 0)
	extramedullary hematopoiesis		0	0	0	0	0	1	0	0	1	1	0	0	1	5	0	0 *
			( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 25)	( 25)	( 0)	( 0)	( 10)	( 50)	( 0)	( 0)
(Circulatory system)																		
heart	myocardial fibrosis		< 8>				< 5>				< 4>				<10>			
			3	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
			( 38)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)	( 50)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
(Digestive system)																		
tongue	arteritis		< 8>				< 5>				< 4>				<10>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 25)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$  Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade	Control 8				1280 ppm 5				3200 ppm 4				8000 ppm 10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
stomach			< 8>				< 5>				< 4>				<10>			
	ulcer:forestomach		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	hyperplasia:forestomach		0	0	0	0	0	1	0	0	1	0	0	0	2	3	0	0
			( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 25)	( 0)	( 0)	( 0)	( 20)	( 30)	( 0)	( 0)
	erosion:glandular stomach		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			( 13)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
liver			< 8>				< 5>				< 4>				<10>			
	herniation		2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
			( 25)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)	( 25)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	necrosis:focal		0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)
	fatty change		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 40)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	granulation		1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
			( 13)	( 0)	( 0)	( 0)	( 20)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
	basophilic cell focus		1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			( 13)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe

< a > a : Number of animals examined at the site

b : Number of animals with lesion

( c ) c : b / a \* 100

Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 14

Organ	Findings	Group Name No. of Animals on Study Grade	Control 8				1280 ppm 5				3200 ppm 4				8000 ppm 10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																		
liver	bile duct hyperplasia		< 8>				< 5>				< 4>				<10>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 25 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
pancreas	atrophy		< 8>				< 5>				< 4>				<10>			
			0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )
	islet cell hyperplasia		< 8>				< 5>				< 4>				<10>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 25 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Urinary system)																		
kidney	chronic nephropathy		< 8>				< 5>				< 4>				<10>			
			1	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0
			( 13 )	( 13 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )	( 25 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )
	dilated pelvis		< 8>				< 5>				< 4>				<10>			
			0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
			( 0 )	( 13 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )
(Endocrine system)																		
pituitary	hyperplasia		< 8>				< 5>				< 4>				<10>			
			0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 40 )	( 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  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 15

Organ	Findings	Group Name No. of Animals on Study Grade	Control 8				1280 ppm 5				3200 ppm 4				8000 ppm 10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																		
thyroid	C-cell hyperplasia		< 8>				< 5>				< 4>				<10>			
			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 13)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
adrenal	peliosis-like lesion		< 8>				< 5>				< 4>				<10>			
			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)	( 10)	( 0)	( 0)
(Reproductive system)																		
uterus	cystic endometrial hyperplasia		< 8>				< 5>				< 4>				<10>			
			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)	( 0)	( 0)	( 0)	( 0)
mammary gl	galactoceles		< 8>				< 5>				< 4>				<10>			
			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 0)	( 13)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
(Special sense organs/appendage)																		
eye	cataract		< 8>				< 5>				< 4>				<10>			
			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
			( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 25)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
b : Number of animals with lesion  
( c ) c : b / a \* 100  
Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
DEAD AND MORIBUND ANIMALS (0-105W)

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade	Control 8				1280 ppm 5				3200 ppm 4				8000 ppm 10			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Special sense organs/appendage}																		
eye			< 8>				< 5>				< 4>				<10>			
	retinal atrophy		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 25)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
nasolacr d			< 8>				< 5>				< 4>				<10>			
	inflammation		1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			( 13)	( 13)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 10)	( 0)	( 0)	( 0)
{Musculoskeletal system}																		
bone			< 8>				< 5>				< 4>				<10>			
	osteosclerosis		2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 25)	( 13)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
b b : Number of animals with lesion  
( c ) c : b / a \* 100  
Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

(HPT150)

BAIS4



**TABLE L 6**

**HISTOPATHOLOGICAL FINDINGS:**

**NON-NEOPLASTIC LESIONS:**

**FEMALE: SACRIFICED ANIMALS**

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 12

Organ	Findings	Group Name No. of Animals on Study Grade	Control 42				1280 ppm 45				3200 ppm 46				8000 ppm 40			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appandage)																		
skin/app			<42>				<45>				<46>				<40>			
	squamous cell hyperplasia		0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	scab		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 )	( 3 )	( 0 )	( 0 )	( 0 )
	epidermal cyst		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Respiratory system)																		
nasal cavit			<42>				<45>				<46>				<40>			
	goblet cell hyperplasia		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 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	eosinophilic change:olfactory epithelium		5	28	2	0	12	30	2	0	12	30	1	0	16	17	1	0 *
			( 12 )	( 67 )	( 5 )	( 0 )	( 27 )	( 67 )	( 4 )	( 0 )	( 26 )	( 65 )	( 2 )	( 0 )	( 40 )	( 43 )	( 3 )	( 0 )
	eosinophilic change:respiratory epithelium		13	0	0	0	15	0	0	0	14	0	0	0	4	0	0	0 *
			( 31 )	( 0 )	( 0 )	( 0 )	( 33 )	( 0 )	( 0 )	( 0 )	( 30 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )
	inflammation:foreign body		0	0	0	0	4	0	0	0	1	0	0	0	1	0	0	0
			( 0 )	( 0 )	( 0 )	( 0 )	( 9 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study Grade				Control 42				1280 ppm 45				3200 ppm 46				8000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																					
nasal cavit		<42>				<45>				<46>				<40>							
	respiratory metaplasia:gland	8	0	0	0	5	0	0	0	8	0	0	0	6	0	0	0	6	0	0	0
		( 19)	( 0)	( 0)	( 0)	( 11)	( 0)	( 0)	( 0)	( 17)	( 0)	( 0)	( 0)	( 15)	( 0)	( 0)	( 0)	( 15)	( 0)	( 0)	( 0)
lung		<42>				<45>				<46>				<40>							
	accumulation of foamy cells	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	bronchiolar-alveolar cell hyperplasia	1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)
(Hematopoietic system)																					
bone marrow		<42>				<45>				<46>				<40>							
	granulation	5	0	0	0	1	2	0	0	6	1	0	0	1	2	0	0	3	5	0	0
		( 12)	( 0)	( 0)	( 0)	( 2)	( 4)	( 0)	( 0)	( 13)	( 2)	( 0)	( 0)	( 3)	( 5)	( 0)	( 0)	( 3)	( 5)	( 0)	( 0)
	increased hematopoiesis	2	0	0	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 5)	( 0)	( 0)	( 0)	( 9)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
spleen		<42>				<45>				<46>				<40>							
	congestion	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$  Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
SACRIFICED ANIMALS (105W)

PAGE : 14

		Group Name No. of Animals on Study				Control 42				1280 ppm 45				3200 ppm 46				8000 ppm 40			
Organ	Findings	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																					
spleen		<42>				<45>				<46>				<40>							
	deposit of hemosiderin	19 ( 45)	11 ( 26)	0 ( 0)	0 ( 0)	22 ( 49)	14 ( 31)	0 ( 0)	0 ( 0)	21 ( 46)	20 ( 43)	0 ( 0)	0 ( 0)	22 ( 55)	17 ( 43)	0 ( 0)	0 ( 0)	0 **			
	extramedullary hematopoiesis	10 ( 24)	1 ( 2)	0 ( 0)	0 ( 0)	14 ( 31)	3 ( 7)	0 ( 0)	0 ( 0)	8 ( 17)	1 ( 2)	0 ( 0)	0 ( 0)	12 ( 30)	1 ( 3)	0 ( 0)	0 ( 0)				
	engorgement of erythrocyte	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 13)	0 ( 0)	0 ( 0)	0 ( 0)				
(Circulatory system)																					
heart		<42>				<45>				<46>				<40>							
	myocardial fibrosis	6 ( 14)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 9)	0 ( 0)	0 ( 0)	0 ( 0)	4 ( 9)	0 ( 0)	0 ( 0)	0 ( 0)	5 ( 13)	0 ( 0)	0 ( 0)	0 ( 0)				
(Digestive system)																					
tongue		<42>				<45>				<46>				<40>							
	arteritis	2 ( 5)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)				

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
< a > a : Number of animals examined at the site  
b b : Number of animals with lesion  
( c ) c : b / a \* 100  
Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 15

Organ	Findings	Control No. of Animals on Study Grade				1280 ppm 45				3200 ppm 46				8000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																	
stomach		<42>				<45>				<46>				<40>			
	ulcer:forestomach	0	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 5 )	( 0 )	( 0 )
	hyperplasia:forestomach	2	0	0	0	1	0	0	0	4	4	0	0	14	21	0	0 **
		( 5 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 9 )	( 9 )	( 0 )	( 0 )	( 35 )	( 53 )	( 0 )	( 0 )
	erosion:glandular stomach	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
	hyperplasia:glandular stomach	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	mineralization:glandular stomach	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
liver		<42>				<45>				<46>				<40>			
	herniation	4	0	0	0	6	0	0	0	6	0	0	0	8	0	0	0
		( 10 )	( 0 )	( 0 )	( 0 )	( 13 )	( 0 )	( 0 )	( 0 )	( 13 )	( 0 )	( 0 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )
	peliosis-like lesion	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	necrosis:focal	1	0	0	0	1	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 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study Grade				Control 42				1280 ppm 45				3200 ppm 46				8000 ppm 40			
		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)				
(Digestive system)																					
liver		<42>				<45>				<46>				<40>							
	granulation	12 ( 29)	1 ( 2)	1 ( 2)	0 ( 0)	9 ( 20)	1 ( 2)	0 ( 0)	0 ( 0)	11 ( 24)	0 ( 0)	0 ( 0)	0 ( 0)	6 ( 15)	0 ( 0)	0 ( 0)	0 ( 0)				
	clear cell focus	2 ( 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)				
	basophilic cell focus	24 ( 57)	0 ( 0)	0 ( 0)	0 ( 0)	28 ( 62)	0 ( 0)	0 ( 0)	0 ( 0)	20 ( 43)	3 ( 7)	0 ( 0)	0 ( 0)	22 ( 55)	1 ( 3)	0 ( 0)	0 ( 0)				
	bile duct hyperplasia	18 ( 43)	0 ( 0)	0 ( 0)	0 ( 0)	11 ( 24)	1 ( 2)	0 ( 0)	0 ( 0)	9 ( 20)	0 ( 0)	0 ( 0)	0 ( 0) *	5 ( 13)	2 ( 5)	0 ( 0)	0 ( 0) **				
	focal fatty change	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 3)	0 ( 0)	0 ( 0)	0 ( 0)					
pancreas		<42>				<45>				<46>				<40>							
	atrophy	1 ( 2)	1 ( 2)	0 ( 0)	0 ( 0)	3 ( 7)	2 ( 4)	0 ( 0)	0 ( 0)	3 ( 7)	1 ( 2)	0 ( 0)	0 ( 0)	3 ( 8)	0 ( 0)	0 ( 0)	0 ( 0)				
	islet cell hyperplasia	1 ( 2)	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 ( 3)	0 ( 0)	0 ( 0)				
(Urinary system)																					
kidney		<42>				<45>				<46>				<40>							
	cyst	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	1 ( 2)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)	0 ( 0)				

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
SACRIFICED ANIMALS (105W)

PAGE : 17

Organ	Findings	Control No. of Animals on Study Grade				1280 ppm 45				3200 ppm 46				8000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																	
kidney		<42>				<45>				<46>				<40>			
	chronic nephropathy	27	4	0	1	28	4	1	0	29	5	0	0	28	6	1	0
		( 64)	( 10)	( 0)	( 2)	( 62)	( 9)	( 2)	( 0)	( 63)	( 11)	( 0)	( 0)	( 70)	( 15)	( 3)	( 0)
	dilatation:tubular lumen	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	atypical tubule hyperplasia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
	dilated pelvis	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)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)
(Endocrine system)																	
pituitary		<42>				<45>				<46>				<40>			
	angiectasis	1	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0
		( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 2)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)
	cyst	1	0	0	0	2	2	0	0	2	1	0	0	2	0	0	0
		( 2)	( 0)	( 0)	( 0)	( 4)	( 4)	( 0)	( 0)	( 4)	( 2)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)
	hyperplasia	8	4	0	0	10	9	0	0	6	8	0	0	5	9	0	0
		( 19)	( 10)	( 0)	( 0)	( 22)	( 20)	( 0)	( 0)	( 13)	( 17)	( 0)	( 0)	( 13)	( 23)	( 0)	( 0)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe

< a > a : Number of animals examined at the site

b : Number of animals with lesion

( c ) c : b / a \* 100

Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 18

Organ	Findings	Group Name No. of Animals on Study Grade				Control 42				1280 ppm 45				3200 ppm 46				8000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																					
pituitary		<42>				<45>				<46>				<40>							
	Rathke pouch	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	( 3)	( 0)	( 0)	( 0)
		( 5)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)				
thyroid		<42>				<45>				<46>				<40>							
	C-cell hyperplasia	14	4	0	0	9	2	0	0	8	5	0	0	10	4	0	0	( 25)	( 10)	( 0)	( 0)
		( 33)	( 10)	( 0)	( 0)	( 20)	( 4)	( 0)	( 0)	( 17)	( 11)	( 0)	( 0)	( 25)	( 10)	( 0)	( 0)				
adrenal		<42>				<45>				<46>				<40>							
	peliosis-like lesion	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	( 0)	( 0)	( 0)	( 0)
		( 2)	( 2)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)				
	necrosis:focal	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)	( 2)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)				
	hyperplasia:medulla	0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0	( 3)	( 0)	( 0)	( 0)
		( 0)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 4)	( 0)	( 0)	( 0)	( 3)	( 0)	( 0)	( 0)				
	focal fatty change:cortex	2	0	0	0	3	0	0	0	0	0	0	0	2	1	0	0	( 5)	( 3)	( 0)	( 0)
		( 5)	( 0)	( 0)	( 0)	( 7)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 0)	( 5)	( 3)	( 0)	( 0)				
(Reproductive system)																					
ovary		<42>				<45>				<46>				<40>							
	cyst	1	2	0	0	1	1	0	0	0	1	0	0	2	0	0	0	( 5)	( 0)	( 0)	( 0)
		( 2)	( 5)	( 0)	( 0)	( 2)	( 2)	( 0)	( 0)	( 0)	( 2)	( 0)	( 0)	( 5)	( 0)	( 0)	( 0)				

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study Grade				Control 42				1280 ppm 45				3200 ppm 46				8000 ppm 40			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Reproductive system)																					
uterus		<42>				<45>				<46>				<40>							
	dilatation	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 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
		<42>				<45>				<46>				<40>							
	decidual change	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 5 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
		<42>				<45>				<46>				<40>							
	cystic endometrial hyperplasia	1	0	0	0	2	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 7 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
mammary gl		<42>				<45>				<46>				<40>							
	galactoceles	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Special sense organs/appendage)																					
eye		<42>				<45>				<46>				<40>							
	cataract	4	0	0	0	3	0	0	0	5	0	0	0	3	0	0	0	0	0	0	0
		( 10 )	( 0 )	( 0 )	( 0 )	( 7 )	( 0 )	( 0 )	( 0 )	( 11 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
		<42>				<45>				<46>				<40>							
	retinal atrophy	25	4	1	0	11	4	0	0 **	6	0	5	0 **	15	3	1	0	0	0	0	0
		( 60 )	( 10 )	( 2 )	( 0 )	( 24 )	( 9 )	( 0 )	( 0 )	( 13 )	( 0 )	( 11 )	( 0 )	( 38 )	( 8 )	( 3 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference ; \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)  
 SACRIFICED ANIMALS (105W)

PAGE : 20

Organ	Findings	Group Name No. of Animals on Study				Control 42				1280 ppm 45				3200 ppm 46				8000 ppm 40			
		Grade				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Special sense organs/appendage)																					
eye		<42>				<45>				<46>				<40>							
	iritis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )
Harder gl		<42>				<45>				<46>				<40>							
	lymphocytic infiltration	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 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
nasolacr d		<42>				<45>				<46>				<40>							
	inflammation	4	2	0	0	3	1	0	0	7	2	0	0	1	1	0	0	1	1	0	0
		( 10 )	( 5 )	( 0 )	( 0 )	( 7 )	( 2 )	( 0 )	( 0 )	( 15 )	( 4 )	( 0 )	( 0 )	( 3 )	( 3 )	( 0 )	( 0 )	( 3 )	( 3 )	( 0 )	( 0 )
(Musculoskeletal system)																					
bone		<42>				<45>				<46>				<40>							
	osteosclerosis	5	3	0	0	4	4	1	0	1	2	1	0	1	0	0	0	1	0	0	0
		( 12 )	( 7 )	( 0 )	( 0 )	( 9 )	( 9 )	( 2 )	( 0 )	( 2 )	( 4 )	( 2 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )	( 3 )	( 0 )	( 0 )	( 0 )

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe  
 < a > a : Number of animals examined at the site  
 b : Number of animals with lesion  
 ( c ) c : b / a \* 100  
 Significant difference : \* : P ≤ 0.05 \*\* : P ≤ 0.01 Test of Chi Square

TABLE M 1

NUMBER OF ANIMALS WITH TUMORS AND  
NUMBER OF TUMORS-TIME RELATED: MALE

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 1

Time-related Weeks	Items	Group Name	Control	1280 ppm	3200 ppm	8000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		1	1	0	0
	NO. OF ANIMALS WITH TUMORS		1	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		1	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		1	0	0	0
	NO. OF TOTAL TUMORS		1	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		4	0	3	3
	NO. OF ANIMALS WITH TUMORS		3	0	3	1
	NO. OF ANIMALS WITH SINGLE TUMORS		3	0	2	1
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	1	0
	NO. OF BENIGN TUMORS		2	0	4	0
	NO. OF MALIGNANT TUMORS		1	0	1	1
	NO. OF TOTAL TUMORS		3	0	5	1
79 - 104	NO. OF EXAMINED ANIMALS		12	11	8	8
	NO. OF ANIMALS WITH TUMORS		10	11	8	8
	NO. OF ANIMALS WITH SINGLE TUMORS		3	4	0	2
	NO. OF ANIMALS WITH MULTIPLE TUMORS		7	7	8	6
	NO. OF BENIGN TUMORS		14	14	14	13
	NO. OF MALIGNANT TUMORS		6	4	4	9
	NO. OF TOTAL TUMORS		20	18	18	22
105 - 105	NO. OF EXAMINED ANIMALS		33	38	39	39
	NO. OF ANIMALS WITH TUMORS		32	38	39	39
	NO. OF ANIMALS WITH SINGLE TUMORS		9	8	15	3
	NO. OF ANIMALS WITH MULTIPLE TUMORS		23	30	24	36
	NO. OF BENIGN TUMORS		57	80	71	96
	NO. OF MALIGNANT TUMORS		10	10	7	26
	NO. OF TOTAL TUMORS		67	90	78	122

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 2

Time-related Weeks	Items	Group Name	Control	1280 ppm	3200 ppm	8000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		46	49	50	48
	NO. OF ANIMALS WITH SINGLE TUMORS		16	12	17	6
	NO. OF ANIMALS WITH MULTIPLE TUMORS		30	37	33	42
	NO. OF BENIGN TUMORS		73	94	89	109
	NO. OF MALIGNANT TUMORS		18	14	12	36
	NO. OF TOTAL TUMORS		91	108	101	145

(HPT070)

BAIS4

TABLE M 2

NUMBER OF ANIMALS WITH TUMORS AND  
NUMBER OF TUMORS-TIME RELATED: FEMALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 3

Time-related Weeks	Items	Group Name	Control	1280 ppm	3200 ppm	8000 ppm
0 - 52	NO. OF EXAMINED ANIMALS		0	0	0	0
	NO. OF ANIMALS WITH TUMORS		0	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		0	0	0	0
	NO. OF TOTAL TUMORS		0	0	0	0
53 - 78	NO. OF EXAMINED ANIMALS		3	2	3	2
	NO. OF ANIMALS WITH TUMORS		3	2	3	2
	NO. OF ANIMALS WITH SINGLE TUMORS		2	2	2	2
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	1	0
	NO. OF BENIGN TUMORS		2	0	2	1
	NO. OF MALIGNANT TUMORS		2	2	2	1
	NO. OF TOTAL TUMORS		4	2	4	2
79 - 104	NO. OF EXAMINED ANIMALS		5	3	1	8
	NO. OF ANIMALS WITH TUMORS		5	2	1	8
	NO. OF ANIMALS WITH SINGLE TUMORS		2	2	0	4
	NO. OF ANIMALS WITH MULTIPLE TUMORS		3	0	1	4
	NO. OF BENIGN TUMORS		5	1	2	8
	NO. OF MALIGNANT TUMORS		4	1	0	5
	NO. OF TOTAL TUMORS		9	2	2	13
105 - 105	NO. OF EXAMINED ANIMALS		42	45	46	40
	NO. OF ANIMALS WITH TUMORS		21	28	27	29
	NO. OF ANIMALS WITH SINGLE TUMORS		16	19	20	17
	NO. OF ANIMALS WITH MULTIPLE TUMORS		5	9	7	12
	NO. OF BENIGN TUMORS		26	32	30	45
	NO. OF MALIGNANT TUMORS		2	7	5	3
	NO. OF TOTAL TUMORS		28	39	35	48

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

PAGE : 4

Time-related Weeks	Items	Group Name	Control	1280 ppm	3200 ppm	8000 ppm
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50
	NO. OF ANIMALS WITH TUMORS		29	32	31	39
	NO. OF ANIMALS WITH SINGLE TUMORS		20	23	22	23
	NO. OF ANIMALS WITH MULTIPLE TUMORS		9	9	9	16
	NO. OF BENIGN TUMORS		33	33	34	54
	NO. OF MALIGNANT TUMORS		8	10	7	9
	NO. OF TOTAL TUMORS		41	43	41	63

(HPT070)

BAIS4



TABLE N 1

HISTOPATHOLOGICAL FINDINGS:  
NEOPLASTIC LESIONS: MALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name No. of animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
(Integumentary system/appandage)						
skin/app			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 ( 0%)	1 ( 2%)	1 ( 2%)	1 ( 2%)
	trichoepithelioma		0 ( 0%)	2 ( 4%)	0 ( 0%)	0 ( 0%)
	keratoacanthoma		2 ( 4%)	0 ( 0%)	0 ( 0%)	2 ( 4%)
	sebaceous adenoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	squamous cell carcinoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
subcutis			<50>	<50>	<50>	<50>
	fibroma		9 ( 18%)	6 ( 12%)	7 ( 14%)	3 ( 6%)
	lipoma		1 ( 2%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
	fibrosarcoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
(Respiratory system)						
nasal cavit			<50>	<50>	<50>	<50>
	chondroma		1 ( 2%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
	osteoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
lung			<50>	<50>	<50>	<50>
	bronchiolar-alveolar adenoma		1 ( 2%)	3 ( 6%)	0 ( 0%)	1 ( 2%)
(Hematopoietic system)						
spleen			<50>	<50>	<50>	<50>
	fibroma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)

< a > a : Number of animals examined at the site  
 b ( c ) b : Number of animals with neoplasm c : b / a \* 100

(HPT085)

BAIS4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name No. of animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
(Hematopoietic system)						
spleen			<50>	<50>	<50>	<50>
	hemangioma		1 ( 2%)	0 ( 0%)	1 ( 2%)	1 ( 2%)
	histiocytic sarcoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
	mononuclear cell leukemia		9 ( 18%)	3 ( 6%)	0 ( 0%)	1 ( 2%)
(Digestive system)						
oral cavity			<50>	<50>	<50>	<50>
	squamous cell carcinoma		1 ( 2%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
tongue			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 ( 0%)	1 ( 2%)	1 ( 2%)	0 ( 0%)
stomach			<50>	<50>	<50>	<50>
	squamous cell papilloma		0 ( 0%)	2 ( 4%)	11 ( 22%)	39 ( 78%)
	squamous cell carcinoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	12 ( 24%)
small intes			<50>	<50>	<50>	<50>
	fibroma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
	adenocarcinoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
liver			<50>	<50>	<50>	<50>
	hepatocellular adenoma		1 ( 2%)	4 ( 8%)	1 ( 2%)	3 ( 6%)
	hepatocellular carcinoma		0 ( 0%)	0 ( 0%)	2 ( 4%)	0 ( 0%)
pancreas			<50>	<50>	<50>	<50>
	islet cell adenoma		2 ( 4%)	4 ( 8%)	6 ( 12%)	3 ( 6%)

< a > a : Number of animals examined at the site  
 b ( c ) b : Number of animals with neoplasm c : b / a \* 100

(HPT085)

BAIS4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)  
ALL ANIMALS (0-105W)

PAGE : 3

Organ	Findings	Group Name No. of animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
(Digestive system)						
pancreas	acinar cell adenoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
	histiocytic sarcoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
(Urinary system)						
urin bladd	transitional cell papilloma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
	transitional cell carcinoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	7 ( 14%)
(Endocrine system)						
pituitary	adenoma		<50> 13 ( 26%)	<50> 10 ( 20%)	<50> 12 ( 24%)	<50> 6 ( 12%)
thyroid	C-cell adenoma		<50> 8 ( 16%)	<50> 7 ( 14%)	<50> 3 ( 6%)	<50> 2 ( 4%)
	follicular adenoma		0 ( 0%)	2 ( 4%)	0 ( 0%)	2 ( 4%)
	C-cell carcinoma		1 ( 2%)	3 ( 6%)	2 ( 4%)	4 ( 8%)
	follicular adenocarcinoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
adrenal	pheochromocytoma		<50> 1 ( 2%)	<50> 8 ( 16%)	<50> 5 ( 10%)	<50> 4 ( 8%)
	pheochromocytoma:malignant		1 ( 2%)	1 ( 2%)	0 ( 0%)	0 ( 0%)

< a > a : Number of animals examined at the site  
b ( c ) b : Number of animals with neoplasm c : b / a \* 100

(HPT085)

BAIS4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name No. of animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
(Reproductive system)						
testis	interstitial cell tumor		<50> 30 ( 60%)	<50> 38 ( 76%)	<50> 35 ( 70%)	<50> 35 ( 70%)
epididymis	histiocytic sarcoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)
prostate	adenoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
mammary gl	fibroadenoma		<50> 2 ( 4%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 3 ( 6%)
prep/cli gl	adenoma		<50> 0 ( 0%)	<50> 4 ( 8%)	<50> 1 ( 2%)	<50> 3 ( 6%)
(Nervous system)						
brain	malignant reticulosis		<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	glioma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 2 ( 4%)
spinal cord	glioma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
(Special sense organs/appendage)						
Zymbal gl	Zymbal gland tumor:malignant		<50> 2 ( 4%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
(Musculoskeletal system)						
bone	osteosarcoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 2 ( 4%)

< a > a : Number of animals examined at the site  
 b ( c ) b : Number of animals with neoplasm c : b / a \* 100

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
(Musculoskeletal system)						
vertebra	chordoma:malignant		<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)
(Body cavities)						
pleura	mesothelioma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
peritoneum	fibrosarcoma		<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	liposarcoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
	mesothelioma		<50> 1 ( 2%)	<50> 2 ( 4%)	<50> 3 ( 6%)	<50> 4 ( 8%)
retroperit	sarcoma:NOS		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)

< a > a : Number of animals examined at the site  
 b ( c ) b : Number of animals with neoplasm c : b / a \* 100

(HPT085)

BAIS4

TABLE N 2

HISTOPATHOLOGICAL FINDINGS:  
NEOPLASTIC LESIONS: FEMALE

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)  
ALL ANIMALS (0-105W)

PAGE : 6

Organ	Findings	Group Name No. of animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
{Integumentary system/appandage}						
skin/app	squamous cell papilloma		<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	trichoepithelioma		1 ( 2%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
subcutis	fibroma		<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)
	lipoma		1 ( 2%)	0 ( 0%)	0 ( 0%)	0 ( 0%)
	fibrosarcoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
{Respiratory system}						
lung	bronchiolar-alveolar adenoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
{Hematopoietic system}						
bone marrow	histiocytic sarcoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)
lymph node	malignant lymphoma		<50> 1 ( 2%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)
spleen	hemangioma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
	mononuclear cell leukemia		6 ( 12%)	2 ( 4%)	0 ( 0%)	1 ( 2%)
{Digestive system}						
oral cavity	squamous cell papilloma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)

< a > a : Number of animals examined at the site  
b ( c ) b : Number of animals with neoplasm c : b / a \* 100



STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 7

Organ	Findings	Group Name No. of animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
(Digestive system)						
stomach	squamous cell papilloma		<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 25 ( 50%)
	squamous cell carcinoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	2 ( 4%)
small intes	leiomyoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)
liver	hepatocellular adenoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 2 ( 4%)
pancreas	islet cell adenoma		<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 1 ( 2%)	<50> 0 ( 0%)
(Urinary system)						
kidney	nephroblastoma		<50> 0 ( 0%)	<50> 0 ( 0%)	<50> 1 ( 2%)	<50> 0 ( 0%)
(Endocrine system)						
pituitary	adenoma		<50> 9 ( 18%)	<50> 7 ( 14%)	<50> 10 ( 20%)	<50> 10 ( 20%)
	adenocarcinoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
thyroid	C-cell adenoma		<50> 1 ( 2%)	<50> 5 ( 10%)	<50> 2 ( 4%)	<50> 4 ( 8%)
	follicular adenoma		0 ( 0%)	1 ( 2%)	2 ( 4%)	0 ( 0%)
	C-cell carcinoma		1 ( 2%)	2 ( 4%)	1 ( 2%)	0 ( 0%)

< a > a : Number of animals examined at the site  
 b ( c ) b : Number of animals with neoplasm c : b / a \* 100

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 8

Organ	Findings	Group Name No. of animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
(Endocrine system)						
thyroid			<50>	<50>	<50>	<50>
	follicular adenocarcinoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
adrenal			<50>	<50>	<50>	<50>
	pheochromocytoma		0 ( 0%)	1 ( 2%)	1 ( 2%)	1 ( 2%)
	pheochromocytoma:malignant		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
(Reproductive system)						
ovary			<50>	<50>	<50>	<50>
	granular cell tumor		0 ( 0%)	1 ( 2%)	0 ( 0%)	1 ( 2%)
	granulosa-theca cell tumor		1 ( 2%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
	adenocarcinoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
uterus			<50>	<50>	<50>	<50>
	adenoma		1 ( 2%)	1 ( 2%)	0 ( 0%)	1 ( 2%)
	hemangioma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
	endometrial stromal polyp		7 ( 14%)	6 ( 12%)	3 ( 6%)	4 ( 8%)
	adenocarcinoma		0 ( 0%)	0 ( 0%)	2 ( 4%)	0 ( 0%)
	leiomyosarcoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
	histiocytic sarcoma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)

< a > a : Number of animals examined at the site  
 b ( c ) b : Number of animals with neoplasm c : b / a \* 100

(HPT085)

BAIS4

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 9

Organ	Findings	Group Name No. of animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
{Reproductive system}						
uterus			<50>	<50>	<50>	<50>
	endometrial stromal sarcoma		0 ( 0%)	2 ( 4%)	0 ( 0%)	1 ( 2%)
mammary gl			<50>	<50>	<50>	<50>
	adenoma		0 ( 0%)	0 ( 0%)	0 ( 0%)	1 ( 2%)
	fibroadenoma		7 ( 14%)	6 ( 12%)	7 ( 14%)	3 ( 6%)
	adenocarcinoma		0 ( 0%)	1 ( 2%)	0 ( 0%)	0 ( 0%)
prep/cli gl			<50>	<50>	<50>	<50>
	adenoma		1 ( 2%)	1 ( 2%)	1 ( 2%)	0 ( 0%)
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	glioma		0 ( 0%)	1 ( 2%)	1 ( 2%)	1 ( 2%)
{Special sense organs/appendage}						
eye			<50>	<50>	<50>	<50>
	neuroendocrine cell tumor:benign		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)
{Body cavities}						
mesenterium			<50>	<50>	<50>	<50>
	fibroma		0 ( 0%)	0 ( 0%)	1 ( 2%)	0 ( 0%)

< a > a : Number of animals examined at the site  
 b ( c ) b : Number of animals with neoplasm c : b / a \* 100

(HPT085)

BAIS4

TABLE O 1

NEOPLASTIC LESIONS-INCIDENCE AND  
STATISTICAL ANALYSIS: MALE

STUDY No. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 1

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : subcutis TUMOR : fibroma				
Tumor rate				
Overall rates(a)	9/50( 18.0)	6/50( 12.0)	7/50( 14.0)	3/50( 6.0)
Adjusted rates(b)	24.24	13.16	13.04	2.56
Terminal rates(c)	8/33( 24.2)	5/38( 13.2)	5/39( 12.8)	1/39( 2.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2448			
Prevalence method(d)	P = 0.9951			
Combined analysis(d)	P = 0.9699			
Cochran-Armitage test(e)	P = 0.0924			
Fisher Exact test(e)		P = 0.2883	P = 0.3929	P = 0.0606
SITE : subcutis TUMOR : fibroma, fibrosarcoma				
Tumor rate				
Overall rates(a)	9/50( 18.0)	6/50( 12.0)	8/50( 16.0)	3/50( 6.0)
Adjusted rates(b)	24.24	13.16	13.33	2.56
Terminal rates(c)	8/33( 24.2)	5/38( 13.2)	5/39( 12.8)	1/39( 2.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2632			
Prevalence method(d)	P = 0.9950			
Combined analysis(d)	P = 0.9667			
Cochran-Armitage test(e)	P = 0.0991			
Fisher Exact test(e)		P = 0.2883	P = 0.5000	P = 0.0606
SITE : lung TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	3/50( 6.0)	0/50( 0.0)	1/50( 2.0)
Adjusted rates(b)	3.03	7.89	0.0	2.56
Terminal rates(c)	1/33( 3.0)	3/38( 7.9)	0/39( 0.0)	1/39( 2.6)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7281			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5752			
Fisher Exact test(e)		P = 0.3087	P = 0.5000	P = 0.7525

(HPT360A)

BAIS4

STUDY No. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	9/50( 18.0)	3/50( 6.0)	0/50( 0.0)	1/50( 2.0)
Adjusted rates(b)	18.18	2.63	0.0	0.0
Terminal rates(c)	6/33( 18.2)	1/38( 2.6)	0/39( 0.0)	0/39( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8721			
Prevalence method(d)	P = 0.9997			
Combined analysis(d)	P = 0.9992			
Cochran-Armitage test(e)	P = 0.0067**			
Fisher Exact test(e)		P = 0.0606	P = 0.0013**	P = 0.0078**
SITE : stomach TUMOR : squamous cell papilloma				
Tumor rate				
Overall rates(a)	0/50( 0.0)	2/50( 4.0)	11/50( 22.0)	39/50( 78.0)
Adjusted rates(b)	0.0	5.26	23.08	92.31
Terminal rates(c)	0/33( 0.0)	2/38( 5.3)	9/39( 23.1)	36/39( 92.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P < 0.0001**?			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.2475	P = 0.0003**	P < 0.0001**
SITE : stomach TUMOR : squamous cell carcinoma				
Tumor rate				
Overall rates(a)	0/50( 0.0)	0/50( 0.0)	0/50( 0.0)	12/50( 24.0)
Adjusted rates(b)	0.0	0.0	0.0	27.27
Terminal rates(c)	0/33( 0.0)	0/38( 0.0)	0/39( 0.0)	9/39( 23.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P < 0.0001**?			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = N. C.	P = N. C.	P = 0.0001**

STUDY No. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : stomach TUMOR : squamous cell papilloma, squamous cell carcinoma				
Tumor rate				
Overall rates(a)	0/50( 0.0)	2/50( 4.0)	11/50( 22.0)	43/50( 86.0)
Adjusted rates(b)	0.0	5.26	23.08	95.12
Terminal rates(c)	0/33( 0.0)	2/38( 5.3)	9/39( 23.1)	37/39( 94.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P < 0.0001**?			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.2475	P = 0.0003**	P < 0.0001**
SITE : liver TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	4/50( 8.0)	1/50( 2.0)	3/50( 6.0)
Adjusted rates(b)	3.03	9.76	2.56	7.69
Terminal rates(c)	1/33( 3.0)	2/38( 5.3)	1/39( 2.6)	3/39( 7.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3278			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6341			
Fisher Exact test(e)		P = 0.1811	P = 0.7525	P = 0.3087
SITE : liver TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	4/50( 8.0)	3/50( 6.0)	3/50( 6.0)
Adjusted rates(b)	3.03	9.76	7.69	7.69
Terminal rates(c)	1/33( 3.0)	2/38( 5.3)	3/39( 7.7)	3/39( 7.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3401			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6534			
Fisher Exact test(e)		P = 0.1811	P = 0.3087	P = 0.3087

(HPT360A)

BAIS4

STUDY No. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : pancreas TUMOR : islet cell adenoma				
Tumor rate				
Overall rates(a)	2/50( 4.0)	4/50( 8.0)	6/50( 12.0)	3/50( 6.0)
Adjusted rates(b)	6.06	9.09	14.63	7.69
Terminal rates(c)	2/33( 6.1)	3/38( 7.9)	5/39( 12.8)	3/39( 7.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4782			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8932			
Fisher Exact test(e)		P = 0.3389	P = 0.1343	P = 0.5000
SITE : pancreas TUMOR : islet cell adenoma, islet cell adenocarcinoma				
Tumor rate				
Overall rates(a)	2/50( 4.0)	4/50( 8.0)	6/50( 12.0)	3/50( 6.0)
Adjusted rates(b)	6.06	9.09	14.63	7.69
Terminal rates(c)	2/33( 6.1)	3/38( 7.9)	5/39( 12.8)	3/39( 7.7)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4782			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8932			
Fisher Exact test(e)		P = 0.3389	P = 0.1343	P = 0.5000
SITE : urinary bladder TUMOR : transitional cell carcinoma				
Tumor rate				
Overall rates(a)	0/50( 0.0)	0/50( 0.0)	0/50( 0.0)	7/50( 14.0)
Adjusted rates(b)	0.0	0.0	0.0	17.95
Terminal rates(c)	0/33( 0.0)	0/38( 0.0)	0/39( 0.0)	7/39( 17.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = N. C.	P = N. C.	P = 0.0062**



STUDY No. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 5

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : urinary bladder TUMOR : transitional cell papilloma, transitional cell carcinoma				
Tumor rate				
Overall rates(a)	0/50( 0.0)	0/50( 0.0)	1/50( 2.0)	7/50( 14.0)
Adjusted rates(b)	0.0	0.0	2.56	17.95
Terminal rates(c)	0/33( 0.0)	0/38( 0.0)	1/39( 2.6)	7/39( 17.9)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P < 0.0001**			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = N. C.	P = 0.5000	P = 0.0062**
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	13/50( 26.0)	10/50( 20.0)	12/50( 24.0)	6/50( 12.0)
Adjusted rates(b)	23.53	13.16	20.93	10.26
Terminal rates(c)	7/33( 21.2)	5/38( 13.2)	8/39( 20.5)	4/39( 10.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9135			
Prevalence method(d)	P = 0.8906			
Combined analysis(d)	P = 0.9669			
Cochran-Armitage test(e)	P = 0.0979			
Fisher Exact test(e)		P = 0.3176	P = 0.5000	P = 0.0624
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	8/50( 16.0)	7/50( 14.0)	3/50( 6.0)	2/50( 4.0)
Adjusted rates(b)	21.62	18.42	6.52	5.13
Terminal rates(c)	7/33( 21.2)	7/38( 18.4)	2/39( 5.1)	2/39( 5.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9933			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0308*			
Fisher Exact test(e)		P = 0.5000	P = 0.0999	P = 0.0458*

STUDY No. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 6

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : thyroid TUMOR : C-cell carcinoma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	3/50( 6.0)	2/50( 4.0)	4/50( 8.0)
Adjusted rates(b)	3.03	5.26	5.13	10.26
Terminal rates(c)	1/33( 3.0)	2/38( 5.3)	2/39( 5.1)	4/39( 10.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5587			
Prevalence method(d)	P = 0.1009			
Combined analysis(d)	P = 0.1512			
Cochran-Armitage test(e)	P = 0.2385			
Fisher Exact test(e)		P = 0.3087	P = 0.5000	P = 0.1811
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	9/50( 18.0)	10/50( 20.0)	5/50( 10.0)	6/50( 12.0)
Adjusted rates(b)	24.32	23.68	10.87	15.38
Terminal rates(c)	8/33( 24.2)	9/38( 23.7)	4/39( 10.3)	6/39( 15.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5587			
Prevalence method(d)	P = 0.8895			
Combined analysis(d)	P = 0.9074			
Cochran-Armitage test(e)	P = 0.2736			
Fisher Exact test(e)		P = 0.5000	P = 0.1940	P = 0.2883
SITE : adrenal gland TUMOR : pheochromocytoma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	8/50( 16.0)	5/50( 10.0)	4/50( 8.0)
Adjusted rates(b)	2.56	21.05	12.82	10.26
Terminal rates(c)	0/33( 0.0)	8/38( 21.1)	5/39( 12.8)	4/39( 10.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4903			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8657			
Fisher Exact test(e)		P = 0.0154*	P = 0.1022	P = 0.1811

STUDY No. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 7

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : adrenal gland TUMOR : pheochromocytoma, pheochromocytoma:malignant				
Tumor rate				
Overall rates(a)	2/50( 4.0)	9/50( 18.0)	5/50( 10.0)	4/50( 8.0)
Adjusted rates(b)	5.13	23.68	12.82	10.26
Terminal rates(c)	1/33( 3.0)	9/38( 23.7)	5/39( 12.8)	4/39( 10.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6512			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.8232			
Fisher Exact test(e)		P = 0.0256*	P = 0.2180	P = 0.3389
SITE : testis TUMOR : interstitial cell tumor				
Tumor rate				
Overall rates(a)	30/50( 60.0)	38/50( 76.0)	35/50( 70.0)	35/50( 70.0)
Adjusted rates(b)	72.73	89.74	78.05	82.05
Terminal rates(c)	24/33( 72.7)	34/38( 89.5)	30/39( 76.9)	32/39( 82.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4721			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6121			
Fisher Exact test(e)		P = 0.0664	P = 0.2009	P = 0.2009
SITE : mammary gland TUMOR : fibroadenoma				
Tumor rate				
Overall rates(a)	2/50( 4.0)	0/50( 0.0)	1/50( 2.0)	3/50( 6.0)
Adjusted rates(b)	6.06	0.0	2.56	7.14
Terminal rates(c)	2/33( 6.1)	0/38( 0.0)	1/39( 2.6)	2/39( 5.1)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1495			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2474			
Fisher Exact test(e)		P = 0.2475	P = 0.5000	P = 0.5000

STUDY No. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 8

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : preputial/clitoral gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	0/50( 0.0)	4/50( 8.0)	1/50( 2.0)	3/50( 6.0)
Adjusted rates(b)	0.0	10.53	0.0	7.14
Terminal rates(c)	0/33( 0.0)	4/38( 10.5)	0/39( 0.0)	2/39( 5.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3846			
Prevalence method(d)	P = 0.2064			
Combined analysis(d)	P = 0.2175			
Cochran-Armitage test(e)	P = 0.3822			
Fisher Exact test(e)		P = 0.0587	P = 0.5000	P = 0.1212
SITE : peritoneum TUMOR : mesothelioma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	2/50( 4.0)	3/50( 6.0)	4/50( 8.0)
Adjusted rates(b)	3.03	5.26	2.56	5.13
Terminal rates(c)	1/33( 3.0)	2/38( 5.3)	1/39( 2.6)	2/39( 5.1)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0706			
Prevalence method(d)	P = 0.3694			
Combined analysis(d)	P = 0.1142			
Cochran-Armitage test(e)	P = 0.1665			
Fisher Exact test(e)		P = 0.5000	P = 0.3087	P = 0.1811

(HPT360A)

BAIS4

- (a): Number of tumor-bearing animals/number of animals examined at the site.  
 (b): Kaplan-Meier estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.  
 (c): Observed tumor incidence at terminal kill.  
 (d): Beneath the control incidence are the P-values associated with the trend test.  
     Standard method : Death analysis  
     Prevalence method : Incidental tumor test  
     Combined analysis : Death analysis + Incidental tumor test  
 (e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.  
 ? : The conditional probabilities of the largest and smallest possible outcomes can not be estimated or this P-value is beyond the estimated P-value.  
 — : There is no data which should be statistical analysis.  
 Significant difference ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$   
 N.C.:Statistical value cannot be calculated and was not significant.

**TABLE O 2**

**NEOPLASTIC LESIONS-INCIDENCE AND  
STATISTICAL ANALYSIS: FEMALE**

STUDY No. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 9

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : spleen TUMOR : mononuclear cell leukemia				
Tumor rate				
Overall rates(a)	6/50( 12.0)	2/50( 4.0)	0/50( 0.0)	1/50( 2.0)
Adjusted rates(b)	6.98	2.22	0.0	0.0
Terminal rates(c)	2/42( 4.8)	1/45( 2.2)	0/46( 0.0)	0/40( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8073			
Prevalence method(d)	P = 0.9867			
Combined analysis(d)	P = 0.9804			
Cochran-Armitage test(e)	P = 0.0492*			
Fisher Exact test(e)		P = 0.1343	P = 0.0133*	P = 0.0559
SITE : stomach TUMOR : squamous cell papilloma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	1/50( 2.0)	1/50( 2.0)	25/50( 50.0)
Adjusted rates(b)	2.38	2.22	2.17	58.54
Terminal rates(c)	1/42( 2.4)	1/45( 2.2)	1/46( 2.2)	23/40( 57.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P < 0.0001**?			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.7525	P = 0.7525	P < 0.0001**
SITE : stomach TUMOR : squamous cell papilloma, squamous cell carcinoma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	1/50( 2.0)	1/50( 2.0)	25/50( 50.0)
Adjusted rates(b)	2.38	2.22	2.17	58.54
Terminal rates(c)	1/42( 2.4)	1/45( 2.2)	1/46( 2.2)	23/40( 57.5)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P < 0.0001**?			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P < 0.0001**			
Fisher Exact test(e)		P = 0.7525	P = 0.7525	P < 0.0001**

STUDY No. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 10

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : pituitary gland TUMOR : adenoma				
Tumor rate				
Overall rates(a)	9/50( 18.0)	7/50( 14.0)	10/50( 20.0)	10/50( 20.0)
Adjusted rates(b)	14.29	13.33	19.15	20.00
Terminal rates(c)	6/42( 14.3)	6/45( 13.3)	8/46( 17.4)	8/40( 20.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5167			
Prevalence method(d)	P = 0.2217			
Combined analysis(d)	P = 0.2627			
Cochran-Armitage test(e)	P = 0.6008			
Fisher Exact test(e)		P = 0.3929	P = 0.5000	P = 0.5000
SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	9/50( 18.0)	7/50( 14.0)	10/50( 20.0)	11/50( 22.0)
Adjusted rates(b)	14.29	13.33	19.15	20.00
Terminal rates(c)	6/42( 14.3)	6/45( 13.3)	8/46( 17.4)	8/40( 20.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3048			
Prevalence method(d)	P = 0.2217			
Combined analysis(d)	P = 0.1830			
Cochran-Armitage test(e)	P = 0.4178			
Fisher Exact test(e)		P = 0.3929	P = 0.5000	P = 0.4016
SITE : thyroid TUMOR : C-cell adenoma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	5/50( 10.0)	2/50( 4.0)	4/50( 8.0)
Adjusted rates(b)	2.38	11.11	4.35	10.00
Terminal rates(c)	1/42( 2.4)	5/45( 11.1)	2/46( 4.3)	4/40( 10.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1986			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4708			
Fisher Exact test(e)		P = 0.1022	P = 0.5000	P = 0.1811

STUDY No. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 11

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : thyroid TUMOR : C-cell adenoma, C-cell carcinoma				
Tumor rate				
Overall rates(a)	2/50( 4.0)	7/50( 14.0)	3/50( 6.0)	4/50( 8.0)
Adjusted rates(b)	4.55	15.56	6.52	10.00
Terminal rates(c)	1/42( 2.4)	7/45( 15.6)	3/46( 6.5)	4/40( 10.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.4107			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.9562			
Fisher Exact test(e)		P = 0.0798	P = 0.5000	P = 0.3389
SITE : uterus TUMOR : endometrial stromal polyp				
Tumor rate				
Overall rates(a)	7/50( 14.0)	6/50( 12.0)	3/50( 6.0)	4/50( 8.0)
Adjusted rates(b)	14.58	13.33	4.35	9.76
Terminal rates(c)	6/42( 14.3)	6/45( 13.3)	2/46( 4.3)	3/40( 7.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3857			
Prevalence method(d)	P = 0.8391			
Combined analysis(d)	P = 0.8300			
Cochran-Armitage test(e)	P = 0.3089			
Fisher Exact test(e)		P = 0.5000	P = 0.1589	P = 0.2623
SITE : mammary gland TUMOR : fibroadenoma				
Tumor rate				
Overall rates(a)	7/50( 14.0)	6/50( 12.0)	7/50( 14.0)	3/50( 6.0)
Adjusted rates(b)	14.29	13.33	14.89	4.26
Terminal rates(c)	6/42( 14.3)	6/45( 13.3)	6/46( 13.0)	1/40( 2.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3207			
Prevalence method(d)	P = 0.9290			
Combined analysis(d)	P = 0.8944			
Cochran-Armitage test(e)	P = 0.1972			
Fisher Exact test(e)		P = 0.5000	P = 0.6129	P = 0.1589



STUDY No. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 12

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
SITE : mammary gland TUMOR : adenoma, fibroadenoma				
Tumor rate				
Overall rates(a)	7/50( 14.0)	6/50( 12.0)	7/50( 14.0)	4/50( 8.0)
Adjusted rates(b)	14.29	13.33	14.89	6.38
Terminal rates(c)	6/42( 14.3)	6/45( 13.3)	6/46( 13.0)	2/40( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3207			
Prevalence method(d)	P = 0.8510			
Combined analysis(d)	P = 0.8036			
Cochran-Armitage test(e)	P = 0.3594			
Fisher Exact test(e)		P = 0.5000	P = 0.6129	P = 0.2623
SITE : mammary gland TUMOR : adenoma, fibroadenoma, adenocarcinoma				
Tumor rate				
Overall rates(a)	7/50( 14.0)	7/50( 14.0)	7/50( 14.0)	4/50( 8.0)
Adjusted rates(b)	14.29	15.56	14.89	6.38
Terminal rates(c)	6/42( 14.3)	7/45( 15.6)	6/46( 13.0)	2/40( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3207			
Prevalence method(d)	P = 0.8760			
Combined analysis(d)	P = 0.8332			
Cochran-Armitage test(e)	P = 0.3030			
Fisher Exact test(e)		P = 0.6129	P = 0.6129	P = 0.2623

(HPT360A)

BAIS4

- (a): Number of tumor-bearing animals/number of animals examined at the site.  
 (b): Kaplan-Meier estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.  
 (c): Observed tumor incidence at terminal kill.  
 (d): Beneath the control incidence are the P-values associated with the trend test.  
     Standard method : Death analysis  
     Prevalence method : Incidental tumor test  
     Combined analysis : Death analysis + Incidental tumor test  
 (e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.  
 ? : The conditional probabilities of the largest and smallest possible outcomes can not be estimated or this P-value is beyond the estimated P-value.  
 — : There is no data which should be statistical analysis.  
 Significant difference ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$   
 N.C.: Statistical value cannot be calculated and was not significant.

TABLE P 1

HISTOPATHOLOGICAL FINDINGS:  
METASTASIS OF TUMOR: MALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
(Respiratory system)						
nasal cavit			<50>	<50>	<50>	<50>
	metastasis:subcutis tumor		0	0	1	0
lung			<50>	<50>	<50>	<50>
	leukemic cell infiltration		6	3	0	1
	metastasis:thyroid tumor		0	0	1	0
	metastasis:subcutis tumor		0	0	1	0
	metastasis:vertebra tumor		0	1	0	0
(Hematopoietic system)						
bone marrow			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	1	0	1
lymph node			<50>	<50>	<50>	<50>
	leukemic cell infiltration		2	3	0	1
	metastasis:thyroid tumor		0	0	0	1
	metastasis:pancreas tumor		0	0	0	1
	metastasis:subcutis tumor		0	0	1	0
(Digestive system)						
salivary gl			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	0	0
liver			<50>	<50>	<50>	<50>
	leukemic cell infiltration		4	3	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
{Digestive system}						
pancreas			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	2	0	0
	metastasis:bone tumor		0	0	0	1
{Urinary system}						
kidney			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	2	0	1
{Endocrine system}						
pituitary			<50>	<50>	<50>	<50>
	leukemic cell infiltration		1	0	0	0
{Reproductive system}						
testis			<50>	<50>	<50>	<50>
	metastasis:epididymis tumor		0	0	0	1
{Nervous system}						
brain			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	1	0	1
{Body cavities}						
mediastinum			<50>	<50>	<50>	<50>
	metastasis:bone tumor		1	0	0	0
peritoneum			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	1
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)  
ALL ANIMALS (0-105W)

PAGE : 3

Organ_____	Findings_____	Group Name	Control	1280 ppm	3200 ppm	8000 ppm
		No. of Animals on Study	50	50	50	50
<hr/>						
{Body cavities}						
peritoneum			<50>	<50>	<50>	<50>
	metastasis:bone tumor		0	0	0	1
<hr/>						
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

(JPT150)

BAIS4

TABLE P 2

HISTOPATHOLOGICAL FINDINGS:  
METASTASIS OF TUMOR: FEMALE

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
{Respiratory system}						
lung			<50>	<50>	<50>	<50>
	leukemic cell infiltration		4	1	0	1
	metastasis:uterus tumor		0	0	2	0
	metastasis:adrenal tumor		0	0	1	0
	metastasis:ovary tumor		0	1	0	0
{Hematopoietic system}						
bone marrow			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	1
lymph node			<50>	<50>	<50>	<50>
	leukemic cell infiltration		0	0	0	1
	metastasis:uterus tumor		0	0	1	0
spleen			<50>	<50>	<50>	<50>
	metastasis:ovary tumor		0	1	0	0
{Digestive system}						
large intes			<50>	<50>	<50>	<50>
	metastasis:ovary tumor		0	1	0	0
liver			<50>	<50>	<50>	<50>
	leukemic cell infiltration		4	1	0	1
	metastasis:ovary tumor		0	1	0	0
pancreas			<50>	<50>	<50>	<50>
	metastasis:uterus tumor		0	0	1	0
< a >	a : Number of animals examined at the site					
b	b : Number of animals with lesion					

STUDY NO. : 0579  
 ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
 REPORT TYPE : A1  
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)  
 ALL ANIMALS (0-105W)

PAGE : 5

Organ	Findings	Group Name No. of Animals on Study	Control 50	1280 ppm 50	3200 ppm 50	8000 ppm 50
{Digestive system}						
pancreas	metastasis:ovary tumor		<50> 0	<50> 1	<50> 0	<50> 0
{Urinary system}						
kidney	leukemic cell infiltration		<50> 2	<50> 0	<50> 0	<50> 1
{Endocrine system}						
adrenal	metastasis:uterus tumor		<50> 0	<50> 0	<50> 1	<50> 0
{Reproductive system}						
ovary	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0
	metastasis:uterus tumor		0	0	2	0
	metastasis:adrenal tumor		0	0	1	0
uterus	leukemic cell infiltration		<50> 1	<50> 0	<50> 0	<50> 0
{Nervous system}						
brain	leukemic cell infiltration		<50> 1	<50> 1	<50> 0	<50> 0
	metastasis:pituitary tumor		0	0	0	1
< a > a : Number of animals examined at the site b b : Number of animals with lesion						



STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
REPORT TYPE : A1  
SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)  
ALL ANIMALS (0-105W)

PAGE : 6

		Group Name	Control	1280 ppm	3200 ppm	8000 ppm
Organ	Findings	No. of Animals on Study	50	50	50	50
{Special sense organs/appendage}						
Harder gl	leukemic cell infiltration		<50> 0	<50> 0	<50> 0	<50> 1
{Body cavities}						
peritoneum	metastasis:uterus tumor		<50> 0	<50> 0	<50> 0	<50> 1
retroperit	metastasis:uterus tumor		<50> 0	<50> 0	<50> 1	<50> 0
< a > a : Number of animals examined at the site						
b b : Number of animals with lesion						

(JPT150)

BAIS4

TABLE Q 1

HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC  
LESIONS IN JAPAN BIOASSAY RESEARCH CENTER:  
F344/DuCr1Cr1j MALE RATS

TABLE Q1 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS  
IN JAPAN BIOASSAY RESEARCH CENTER : F344/DuCrI CrIj MALE RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Stomach	2249			
Squamous cell papilloma 1)		5	0.2	0 - 2
Squamous cell carcinoma 2)		4	0.2	0 - 2
1)+2)		9	0.4	0 - 2
Urine bladder	2249			
Transitional cell papilloma		11	0.5	0 - 4
Transitional cell carcinoma		0	0.0	0 - 0
Spleen	2249			
Mononuclear cell leukemia		264	11.7	2 - 22
Thyroid	2243			
C-cell adenoma		317	14.1	2 - 30
Adrenal	2249			
Pheochromocytoma		258	11.5	0 - 40
Pheochromocytoma:malignant		37	1.6	0 - 8

45 carcinogenicity studies examined in Japan Bioassay Research Center were used.

Study No. : 0043, 0059, 0061, 0063, 0065, 0067, 0095, 0104, 0115, 0130, 0141, 0158, 0162, 0189, 0205, 0210, 0224, 0242, 0246, 0267, 0269, 0278, 0284, 0288, 0294, 0296, 0318, 0328, 0342, 0347, 0365, 0371, 0396, 0399, 0401, 0407, 0417, 0421, 0437, 0448, 0457, 0461, 0497, 0535, 0560

TABLE Q 2

HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC  
LESIONS IN JAPAN BIOASSAY RESEARCH CENTER:  
F344/DuCr1Cr1j FEMALE RATS

TABLE Q2 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS  
IN JAPAN BIOASSAY RESEARCH CENTER : F344/DuCr1Cr1j FEMALE  
RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min. - Max. (%)
Stomach	2097			
Squamous cell papilloma		5	0.2	0 - 2
Squamous cell carcinoma		0	0.0	0 - 0
Spleen	2097			
Mononuclear cell leukemia		267	12.7	2 - 26

42 carcinogenicity studies examined in Japan Bioassay Research Center were used.

Study No. : 0043, 0059, 0061, 0063, 0065, 0067, 0095, 0104, 0115, 0130, 0141, 0158, 0162, 0189,  
0205, 0210, 0224, 0242, 0246, 0267, 0269, 0278, 0284, 0296, 0303, 0318, 0328, 0342,  
0347, 0365, 0371, 0399, 0401, 0417, 0421, 0437, 0448, 0457, 0461, 0497, 0535, 0560

TABLE R

CAUSE OF DEATH OF RATS IN THE 2-YEAR FEED STUDY OF  
2-AMINO-4-CHLOROPHENOL

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
SEX : MALE

COUSE OF DEATH (SUMMARY)  
(0-105W)

PAGE : 1

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
Number of Dead and Moribund Animal	17	12	11	11
no microscop confirm	3	2	1	2
cardiovascular les	0	0	0	1
adrenal lesion	1	0	0	0
tumor d:leukemia	3	2	0	1
tumor d:subcutis	1	1	2	2
tumor d:tongue	0	0	1	0
tumor d:pituitary	5	5	3	2
tumor d:thyroid	0	1	0	0
tumor d:prep/cli gl	0	0	1	0
tumor d:spinal cord	1	0	0	0
tumor d:Zymbal gl	2	0	0	0
tumor d:bone	0	0	0	1
tumor d:vertebra	1	0	0	0
tumor d:peritoneum	0	1	2	2
tumor d:retroperit	0	0	1	0

(BI0120)

BAIS4

STUDY NO. : 0579  
ANIMAL : RAT F344/DuCr1Cr1j[F344/DuCrj]  
SEX : FEMALE

COUSE OF DEATH (SUMMARY)  
(0-105W)

PAGE : 2

Group Name	Control	1280 ppm	3200 ppm	8000 ppm
Number of Dead and Moribund Animal	8	5	4	10
no microscop confirm	0	1	0	0
tumor d:leukemia	4	1	0	1
tumor d:subcutis	0	0	0	1
tumor d:kidney	0	0	1	0
tumor d:pituitary	3	1	1	3
tumor d:uterus	0	1	2	3
tumor d:mammary gl	1	0	0	1
tumor d:brain	0	1	0	1

(BI0120)

BAIS4