4-tert-ブチルカテコ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:0739

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TABLE A 1

SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

REPORT TYPE : A1 104 SEX : MALE

PAGE: 1

Group Name	Animals	Administ	ration (Wee	ks)											
	At start	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50 100. 0													
144 ppm	50	50/50 100. 0													
1333 ppm	50	50/50 100. 0													
4000 ppm	50	50/50 100. 0													

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

(HAN360)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 SEX : MALE

PAGE: 2

Group Name	Animals	Administ	ration (Wee	ks)											
	At start	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ontrol	50	50/50 100. 0													
144 ppm	50	50/50 100. 0													
333 ppm	50	50/50 100. 0													
4000 ppm	50	50/50 100. 0													

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

(HAN360)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 SEX : MALE

PAGE: 3

Group Name	. Animals	Administ	ration (Wee	ks)											
	At start	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50 100. 0	50/50 100. 0	50/50 100. 0	50/50 100.0	50/50 100. 0									
144 ppm	50	50/50 100. 0													
333 ppm	50	50/50 100. 0													
4000 ppm	50	50/50 100. 0													

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

(HAN360)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 SEX : MALE

PAGE: 4

Group Name	Animals	Administ	ration (Wee	ks)											
	At start	42	43	44	45	46	47	48	49	50	51	52	53	54	55
ontrol	50	50/50 100. 0													
144 ppm	50	50/50 100. 0													
1333 ppm	50	50/50 100. 0													
4000 ppm	50	50/50 100. 0													

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

(HAN360)

BA1S5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 SEX : MALE

PAGE: 5

Group Name	Animals	Administ	ration (Wee	ks)											
	At start	56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	50/50 100. 0	49/50 98. 0	48/50 96. 0	48/50 96. 0										
444 ppm	50	50/50 100. 0													
1333 ppm	50	50/50 100. 0	50/50 100. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0
4000 ppm	50	50/50 100. 0	50/50 100. 0	50/50 100. 0	50/50 100. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	48/50 96. 0

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

(HAN360) BAIS5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 SEX : MALE

PAGE: 6

Group Name	Animals	Administ	ration (Wee	ks)							·····				
	At start	70	71	72	73	74	75	76	77	78	79	80	81	82	83
Control	50	48/50 96. 0	48/50 96. 0	48/50 96. 0	48/50 96. 0	48/50 96. 0	48/50 96. 0	48/50 96. 0	48/50 96. 0	48/50 96. 0	48/50 96. 0				
144 ppm	50	50/50 100. 0	49/50 98. 0	49/50 98. 0	47/50 94. 0	47/50 94. 0	47/50 94. 0	46/50 92. 0	46/50 92. 0	46/50 92. 0	46/50 92. 0				
1333 ppm	50	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	46/50 92. 0								
4000 ppm	50	48/50 96. 0	48/50 96. 0	48/50 96. 0	48/50 96. 0	47/50 94. 0									

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

(HAN360) BAIS5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104 SEX : MALE

PAGE: 7

Group Name	Animals	Administ	ration (Wee	ks)											
	At start	84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	48/50 96. 0	45/50 90. 0	44/50 88. 0	44/50 88. 0										
444 ppm	50	46/50 92. 0	45/50 90. 0	44/50 88. 0	42/50 84. 0	41/50 82. 0	41/50 82. 0	40/50 80. 0							
1333 ppm	50	45/50 90. 0	44/50 88. 0	43/50 86. 0	41/50 82. 0	39/50 78. 0									
4000 ppm	50	47/50 94. 0	47/50 94. 0	47/50 94. 0	47/50 94. 0	46/50 92. 0	45/50 90. 0								

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

(HAN360) BA1S5 STUDY NO. : 0739

SURVIVAL ANIMAL NUMBERS

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 SEX : MALE

PAGE: 8

Group Name	Animals	Administ	ration (Wee	eks)				
	At start	98	99	100	101	102	103	104
Control	50	43/50	41/50	40/50	40/50	39/50	39/50	39/50
70		86. 0	82. 0	80. 0	80. 0	78. 0	78. 0	78. 0
444 ppm	50	39/50	39/50	39/50	39/50	39/50	37/50	36/50
		78. 0	78. 0	78. 0	78. 0	78. 0	74. 0	72. 0
1333 ppm	50	39/50	39/50	39/50	38/50	36/50	36/50	36/50
		78. 0	78. 0	78. 0	76. 0	72. 0	72. 0	72. 0
4000 ppm	50	44/50	44/50	44/50	44/50	43/50	42/50	41/50
		88. 0	88. 0	88. 0	88. 0	86. 0	84. 0	82. 0

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

(HAN360)

BA1S5

TABLE A 2

SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 9

Group Name	Animals	Administ	ration (Wee	ks)											
	At start	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	50	50/50 100. 0													
444 ppm	50	50/50 100. 0													
1333 ppm	50	50/50 100. 0													
4000 ppm	50	50/50 100. 0													

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

(HAN360) BA1S5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 10

Group Name	Animals	Administ	ration (Wee	ks)		-						····			
	At start	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Control	50	50/50 100. 0													
444 ppm	50	50/50 100. 0													
1333 ppm	50	50/50 100. 0													
4000 ppm	50	50/50 100. 0													

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

(HAN360)

BA1S5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 11

Group Name	Animals	Administ	ration (Wee	ks)											,
	At start	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Control	50	50/50 100. 0	50/50 100. 0	50/50 100. 0	50/50 100. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0
144 ppm	50	50/50 100. 0													
1333 ppm	50	50/50 100. 0													
4000 ppm	50	50/50 100. 0													

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

(HAN360) BA1S5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

PAGE: 12

Group Name	Animals	Administ	ration (Wee	ks)											
	At start	42	43	44	45	46	47	48	49	50	51	52	53	54	55
ontrol	50	49/50 98. 0													
44 ppm	50	50/50 100. 0	50/50 100. 0	50/50 100. 0	50/50 100. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	48/50 96. 0
333 ppm	50	50/50 100. 0													
1000 ppm	50	50/50 100. 0													

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

(HAN360)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 SEX : FEMALE

PAGE: 13

Group Name	Animals	Administ	ration (Wee	ks)											
	At start	56	57	58	59	60	61	62	63	64	65	66	67	68	69
Control	50	49/50 98. 0													
444 ppm	50	48/50 96. 0	46/50 92. 0												
1333 ppm	50	50/50 100. 0													
4000 ppm	50	50/50 100. 0													

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

(HAN360) BAIS5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 SEX : FEMALE

PAGE: 14

Group Name	Animals	Administ	ration (Wee	ks)											
	At start	70	71	72	73	74	75	76	77	78	79	80	81	82	83
ontrol	50	49/50 98. 0	49/50 98. 0	49/50 98. 0	48/50 96. 0	48/50 96. 0	47/50 94. 0	47/50 94. 0	47/50 94. 0	47/50 94. 0					
144 ppm	50	46/50 92. 0	46/50 92. 0	46/50 92. 0	45/50 90. 0	45/50 90. 0	45/50 90. 0	45/50 90. 0	45/50 90. 0	45/50 90. 0					
1333 ppm	50	50/50 100. 0	49/50 98. 0												
4000 ppm	50	50/50 100. 0	50/50 100. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0	49/50 98. 0

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

(HAN360) BA1S5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 SEX : FEMALE

PAGE: 15

Group Name	Animals	Administ	ration (Wee	ks)											
	At start	84	85	86	87	88	89	90	91	92	93	94	95	96	97
Control	50	47/50 94. 0	47/50 94. 0	47/50 94. 0	46/50 92. 0	45/50 90. 0	45/50 90. 0	44/50 88. 0							
144 ppm	50	45/50 90. 0	45/50 90. 0	45/50 90. 0	44/50 88. 0	44/50 88. 0	43/50 86. 0	41/50 82. 0							
333 ppm	50	49/50 98. 0	47/50 94. 0	47/50 94. 0	47/50 94. 0	47/50 94. 0	46/50 92. 0	45/50 90. 0	45/50 90. 0						
4000 ppm	50	49/50 98. 0	47/50 94. 0	47/50 94. 0	47/50 94. 0	46/50 92. 0	45/50 90. 0	45/50 90. 0							

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

(HAN360)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 16

Group Name	Animals	Administ	ration (Wee	eks)				
	At start	98	99	100	101	102	103	104
Control	50	44/50	42/50	41/50	41/50	41/50	41/50	40/50
		88. 0	84. 0	82. 0	82. 0	82. 0	82. 0	80. 0
444 ppm	50	41/50	41/50	41/50	41/50	41/50	40/50	40/50
		82. 0	82. 0	82. 0	82. 0	82. 0	80. 0	80. 0
1333 ppm	50	45/50	45/50	45/50	44/50	44/50	44/50	43/50
		90. 0	90. 0	90. 0	88. 0	88. 0	88. 0	86. 0
4000 ppm	50	44/50	44/50	44/50	44/50	43/50	43/50	43/50
		88. 0	88. 0	88. 0	88. 0	86. 0	86. 0	86. 0

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

(HAN360) BAIS5

TABLE B 1

CLINICAL OBSERVATION: MALE

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-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
, CATH	444 ppm	Ô	Ö	0	0	0	Ö	0	Ö	Ö	Ô	ŏ	ŏ	Ŏ	Õ
	1333 ppm	Ô	Ŏ	Ŏ	Ŏ	Ö	Ö	0	Ö	Ö	Ô	ō	Ō	Ō	0
	4000 ppm	0	Ö	0	ō	0	0	0	0	0	0	0	0	0	0
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
М	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	O	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

linical sign	Group Name	Admini	stration W	Veek-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
EATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AIII	444 ppm	0	0	0	0	0	0	0	0	0	0	0	Õ	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	Ô	Ö	Õ	Ö
	4000 ppm	Ö	ő	ő	ő	Ő	Õ	ő	Ö	ő	Õ	0	Ô	Õ	Ö
RIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

linical sign	Group Name	Admini	stration W	eek-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
ЕАТН	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAIN		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	U	0			0	0	0	0	0	0	0	0	0	0
	1333 ppm 4000 ppm	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	U	U	U	U	U	U	U	U	U	U	U	U	U	U
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Ō	Ō	Ō	Ō	0	0	0	Ō	0	0	0	0	0
	1333 ppm	Ō	Ö	Ö	Ö	Ö	Ō	Õ	Ö	Ō	Ō	Ō	Ō	0	0
	4000 ppm	0	Ö	0	Ö	Õ	Ō	Õ	Ö	Ö	0	0	0	0	0
ASTING	Control	0	n	0	0	0	0	0	0	0	0	0	0	0	0
10 1 1 Mu	444 ppm	n	0	0	0	0	0	0	0	0	0	0	Õ	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm 4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppili	U	U	U	U	U	U	U	U	U	U	U	U	U	Ü
OILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ô	Õ	0	Ö	Õ	Õ	Ō	Ō	ō	Õ	Ō	Ō	Ō	Ô
	1333 ppm	Ō	ŏ	Õ	Ö	Ö	Õ	Õ	Õ	ŏ	Ŏ	Õ	Ö	Ō	Ō
	4000 ppm	ő	Ŏ	0	Ŏ	Ŏ	4	7	7	7	7	7	15	15	17
		-	-	·		•	,			•	•	•			
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	Ō	0	0	0	Ō	Ō	Ō	0	0	0	0	0
	4000 ppm	Ö	Ö	0	Ö	Ō	Õ	Õ	Ō	Õ	Ō	Ō	0	0	0
N.E	0	^	•	^	•		•	•	•	•	•	•	•	•	^
М	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

SEX : MALE															PAGE
Hinical sign	Group Name	Admini	stration W												
MAINING IN COLUMN TO THE COLUM		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
ATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	ñ	Ö	Õ	ő	Ö	ŏ	0	Ŏ	Õ	Ŏ	Õ	Õ	Õ	Õ
	1333 ppm	Ů	0	0	0	Õ	0	0	Õ	0	Õ	Ô	Ô	Õ	Õ
	4000 ppm	0	Ö	ŏ	ő	Ô	Ö	Õ	Ö	Ö	Ö	0	0	Ö	Ö
RIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	17	21	21	21	21	23	23	23	23	26	26	26	26	28
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ü	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	U	0	0	0	0	0	0	1	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

SEX . MALL															I NUL .
Clinical sign	Group Name	Admini	stration W	eek-dav							*************				·
	2.22	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
										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
EATH	Control	0	0	0	0	0	0	0	0	0	0	1	2	2	2
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	0	0	0	1	1	1	1	1	1	1	1	1	2	2
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	4000 ppm	28	27	27	29	32	32	32	32	32	33	33	33	33	33
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SEX : MALE

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

Clinical sign	Group Name		stration V	leek-day _								·			
Mediation		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	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2,1111	444 ppm	Õ	Ō	ō	Õ	1	1	3	3	3	3	3	3	3	3
	1333 ppm	1	1	1	1	i	i	1	i	4	4	4	4	4	4
	4000 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
MORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
	444 ppm	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
HUNCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
/ASTING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	2	2	2	2	2	2	2	1	0	0	0	0	0	0
	4000 ppm	36	38	38	41	41	40	40	39	40	40	41	40	40	40
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	1	1	1	1	1	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	n	0	0	0	0	0	0	0	0	0	O	0	0

STUDY NO. : 0739

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 104

SEX : MALE

Clinical sign	Group Name	Admini	stration W	aak-day											
Stiller 21811	Group Name	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
EATH [°]	Control	2	2	2	2	2	2	2	2	2	2	5	5	5	5
LAIII	444 ppm	4	4	4	4	4	4	4	4	4	5	6	6	6	7
	1333 ppm	4	4	4	4	4	5	5	5	5	5	5	7	8	8
	4000 ppm	2	2	2	3	3	3	3	3	3	3	3	3	4	4
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	2
	444 ppm	1	1	1	1	1	1	1	1	2	3	3	3	4	4
	1333 ppm	1	1	1	1	2	2	2	2	2	2	2	2	3	3
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	2
NCHBACK POSITION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ASTING	Control	0	0	0	0	0	0	0	0	1	1	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	U	0	U	U
DILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
DLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	40	40	39	39	39	39	39	39	39	39	24	25	27	27
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	444 ppm	0	0	0	0	0	0	. 0	0	0	0	0	1	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	444 ppm	1	1	1	1	1	1	1	2	2	1	1	2	1	1
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SEX : MALE

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

Clinical sign	Group Name	Admini	stration	Week-day			
-		99-7	100-7	101-7	102-7	103-7	104-7
					***************************************	······································	
DEATH	Control	6	7	7	7	7	7
DEATH	444 ppm	7	7	7	7	7	8
	1333 ppm	8	8	9	9	9	9
	4000 ppm	4	4	4	5	5	6
	4000 ppiii	7	4	~	J	J	Ü
MORIBUND SACRIFICE	Control	3	3	3	4	4	4
	444 ppm	4	4	4	4	6	6
	1333 ppm	3	3	3	5	5	5
	4000 ppm	2	2	2	2	3	3
	1000 ppm	-	-	-	-	·	v
HUNCHBACK POSITION	Control	0	0	0	0	0	0
	444 ppm	1	1	1	1	Õ	ŏ
	1333 ppm	Ö	Ö	Ö	Ö	0	ŏ
	4000 ppm	Ö	0	0	0	0	Õ
	TOOO PRIII	J	U	U	·	v	v
WASTING	Control	1	1	1	1	0	0
	444 ppm	i	i	i	i	0	Õ
	1333 ppm	Ö	Ö	ò	Ó	0	Õ
	4000 ppm	0	0	0	0	0	Ô
	-1000 ppm	Ü	Ū	v	U	v	·
SOILED	Control	0	0	0	0	0	0
	444 ppm	Ö	Ö	Ö	Ö	0	ŏ
	1333 ppm	Ö	0	0	0	0	Ö
	4000 ppm	1	1	1	1	1	1
	TOOU PPIII	,	•	•	'	,	,
COLORED	Control	0	0	0	0	0	0
	444 ppm	Õ	Ő	0	0	0	ŏ
	1333 ppm	Õ	Õ	Ö	Ö	0	ő
	4000 ppm	27	27	27	26	15	15
	HACO DAIL	LI	-1		20	10	10
PILOERECTION	Control	0	0	0	0	0	0
	444 ppm	Ö	Õ	Ö	0	Õ	ŏ
	1333 ppm	Ŏ	Ô	0	0	Ö	Ö
	4000 ppm	0	0	0	1	Õ	0
	TOOO PAM	Ü	v	J	•	v	Ü
SOILED PERI-GENITALIA	Control	1	1	1	1	1	1
oo. a-b can our man	444 ppm	i	i	i	1	Ó	Ó
	1333 ppm	Ó	Ö	Ö	1	1	1
	4000 ppm	0	0	0	0	Ó	i
	TOOO PRIII	Ū	v	U	U	v	'
GUM	Control	0	0	0	0	0	0
	444 ppm	ő	0	0	Ö	Ö	Ö
	1333 ppm	0	Ő	Ö	Ö	Õ	Ŏ
	4000 ppm	0	0	0	0	0	0
	ppm	ŭ	Ü	ū	J	v	·

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

CATARACT ORNEAL OPACITY IALOCCLUSION OSE HEMORRHAGIC DISCHA	Control 444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	5-7 0 0 0 0 0	6-7 0 0 0 0	7-7 0 0 0 0	0 0 0 0 0	9-7 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0
ORNEAL OPACITY	444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
ORNEAL OPACITY	444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
ALOCCLUSION	1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0	0	0	0	0	0	0	0	0
IALOCCLUSION	4000 ppm Control 444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0	0					•	_	_	
IALOCCLUSION	Control 444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm	0 0 0 0	0 0 0 0	0 0 0	0	0	•	U	U	U	U	U	U		
ALOCCLUSION	444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm	0 0 0	0 0 0	0	0		0						-	U	·
	1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm	0 0 0	0 0	0		0		0	. 0	0	0	0	0	0	0
	4000 ppm Control 444 ppm 1333 ppm 4000 ppm	0 0 0	0		0		0	0	0	0	0	0	0	0	0
	Control 444 ppm 1333 ppm 4000 ppm	0	-	0		0	0	0	0	0	0	0	0	0	0
	444 ppm 1333 ppm 4000 ppm	0	n		0	0	0	0	0	0	0	0	0	0	0
	444 ppm 1333 ppm 4000 ppm	0		0	0	0	0	0	0	0	0	0	0	0	0
OSE HEMORRHAGIC DISCHA	1333 ppm 4000 ppm	•	0	0	0	0	0	0	0	0	0	0	Õ	Õ	ő
OSE HEMORRHAGIC DISCHA	4000 ppm	41	0	0	0	0	0	0	0	0	0	n	0	0	0
OSE HEMORRHAGIC DISCHA		0	0	0	0	0	0	0	0	0	0	n	0	0	0
DSE HEMORRHAGIC DISCHA		U	U	U	U	U	U	U	U	U	U	U	U	U	U
	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	n	Ö	Ŏ	Ŏ	Ö	Ö	Ö	Ö	Ö	Ō	ā	0	0	0
	1333 ppm	Ö	Ö	Ö	Ö	Ö	Ö	ŏ	Ö	Ŏ	Ö	Ŏ	Ö	Ō	Õ
	4000 ppm	0	0	0	0	0	0	Ö	n	0	0	0	0	Ô	Õ
	4000 ppiii	v	v	U	U	U	U	U	U	U	Ū	Ü	Ü	Ü	Ū
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI-MOUTH	Control	n	0	0	0	0	0	0	0	0	0	O	0	0	0
	444 ppm	n	0	0	0	0	0	Ö	0	0	Ö	n	0	Õ	. 0
	1333 ppm	0	0	0	0	0	0	0	0	0	Ö	Ô	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
מרחו דוח	0		•	•	•	•	•			0		•	0	0	^
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Õ	Ö	Õ	Ö	Ö	Ö	Ŏ	Õ	Ö	Õ	Õ	0	0	Ō
	1333 ppm	ő	0	0	0	0	0	0	0	0	Ŏ	0	Õ	0	ŏ
	4000 ppm	0	0	0	0	0	0	0	0	v	U			U	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

LA . NALL															TAGE .
linical sign	Group Name	Admini	stration W	eek-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
ATARACT	Combinal	0	٥	0	0	0	0	0	٥	0	0	0	0	0	0
ATARACT	Control	0	0 0	0	0	0	0 0	0 0	0 0	0 0	0 0	0	0	0	0
	444 ppm	0	_	0	0	0						_		0	0
	1333 ppm	U	0	0	0	0	0	0	0	0	0	0	0 0		0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	U	0	U
RNEAL OPACITY	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	444 ppm	Õ	Ŏ	Ö	Ö	Ö	Ö	Ŏ	Õ	Ō	Ō	ō	0	0	0
	1333 ppm	Õ	Õ	Ö	Õ	Ö	Ö	Ö	Ö	ŏ	Ö	Õ	Ô	Õ	Õ
	4000 ppm	Ô	ñ	Ö	Ô	Ö	Õ	Õ	Ö	ŏ	Ö	Ö	Õ	Ŏ	Õ
	4000 ppm	v	Ū	v	v	v	Ü	U	Ū	v	v	Ü	v	ŭ	ŭ
ITERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Õ	Ö	Ö	Õ	Ö	Ö	Ŏ	Ŏ	ŏ	Ö	Õ	Ō	Ō	Ö
	1333 ppm	0	0	0	0	0	0	0	0	ő	Õ	Ö	Õ	Ö	ŏ
	4000 ppm	Õ	ő	0	0	Ö	Ö	0	Ö	Ö	ő	Ö	Ö	0	Ö
HEAD	Control	0	0	0	0	0	0	0	0	0	0	n	0	0	n
ITERO	444 ppm	n	0	0	0	0	0	0	0	n	0	0	0	0	0
	1333 ppm	0	0	0	0		0	0	0	0	0	0	0	0	0
		0	0	0	0	0 0	0	0	0	0	0	0	0	0	0
	4000 ppm	U	U	U	U	U	U	U	U	U	υ	U	U	U	U

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

SEA . MALE															I AUL .
Clinical sign	Group Name	Admini	stration W	eek-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
ATADACT	Oznakoval	٥	٥	0		٥	0	0	٥	0	0	0	0	0	0
CATARACT	Control	0	0	0	0	0	0	0	0 0	0 0	0 0	0 0	0 0	0	0
	444 ppm	0	0	0	0	0	0	0					-		-
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Õ	Ö	Ö	Õ	0	Ö	Õ	Õ	Ō	Ō	0	0	0
	1333 ppm	Õ	ñ	Ö	Ö	Ö	Ö	Õ	Õ	Ö	Ö	Ŏ	Ö	Ö	ō
	4000 ppm	0	0	0	0	0	0	0	0	0	Ő	Ö	Ö	0	ő
OSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OL HEMURKHAUIC DISCHA	Control	0	0	0		-		-	0	0	0	0	0	0	0
	444 ppm	•	·	-	0	0	0	0	•	-	_		•	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	U	U	U	U	U
KTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	4000 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	Ö	Õ	Ö	Ö	Ö	Ô	Ŏ	Õ	Õ	Õ	Ö	Ö	Ō
	4000 ppm	Ö	0	0	Õ	Õ	Ö	ő	Ö	Õ	Ö	0	Ö	Ö	Ō
PERI-MOUTH	Control	Λ	0	0	0	0	0	0	0	0	0	0	0	0	0
I LIVI MUUTII	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm 1333 ppm	U n	-	0		0		0	0	0	0	0	1	1	0
	1333 ppm 4000 ppm	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0
	4000 իիլլլ	U	U	U	U	υ	U	U	U	U	U	U	U	U	U
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	1	1	1	1	1	1	1	1	1	1
HEAD	Control	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0
	444 ppm	Ō	ō	Ö	Ö	Ō	Ö	Ō	Ō	Õ	Ō	Ō	Ō	0	0
	1333 ppm	ő	Õ	0	0	0	0	0	0	0	0	Õ	Ô	ő	Ö
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	ñ	Ô	Õ
	4000 ppm	U	U	U	U	U	U	U	U	U	U	υ	v	U	v

STUDY NO. : 0739

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name		stration W												
		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
ATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATAMAGI	444 ppm	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	1333 ppm	0	0	0	0	0	0	0	0	Ó	Ö	Ó	Ö	Ö	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppiii	U	U	U	U	U	U	U	U	U	U	Ū	U	U	U
ORNEAL OPACITY	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	Ō	Ō	Ö	Ö	Ō	Ö	Ö	Ō	Ō	0	0	0	0
	4000 ppm	0	Ō	0	Õ	Ō	0	0	0	0	0	0	0	0	0
OSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JOE HEMORKHAUIG DISCHA		U A	0	-	0			0	0	0	0	0	0	0	0
	444 ppm	U	-	0	•	0	0	-	-	-	_	•		•	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	U
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	U
XTERNAL MASS	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	2	2	2	2	2	2	2	2	2	3	3	3
NTERNAL MACC	0	0	0	0		•	0		•		0	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	a
i enti enti	444 ppm	ก	0	0	0	0	0	0	0	0	0	0	0	0	Ŋ
		•	-	•			_	-	_	_		0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	_	U •	U	U
	4000 ppm	I		1	1	1	1	1	1	1	1	1	I	ı	I
HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SEX : MALE

PAGE: 13

EX : MALE															PAGE
linical sign	Group Name		stration W					***************************************							
		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
TARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIANACI	444 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1333 ppm	'n	Ô	Ö	Ö	Ö	0	Ö	Ó	Ö	Ö	Ö	Ö	ò	'n
	4000 ppm	0	0	0	0	0	1	1	1	2	2	2	2	2	3
DRNEAL OPACITY	Control	1	1	1	0	0	0	0	n	0	1	1	1	1	1
	444 ppm	Ö	Ö	O	Õ	0	Ö	Ö	Ô	Ö	Ò	ò	Ö	Ò	Ô
	1333 ppm	2	2	2	1	1	1	1	1	2	2	2	2	2	2
	4000 ppm	0	0	Ô	Ö	Ö	Ö	ò	Ô	0	Õ	0	Ō	Õ	0
	4000 ppm	U	U	U	U	U	U	U	U	U	U	U	U	U	U
ALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	Ö	0	Ō	0	Ō	Ō	0	Ō	Ō	0	0	0	0
(TERNAL MASS	Control	0	0	0	0	1	1	2	1	1	1	2	1	1	1
	444 ppm	ñ	Ö	Õ	Õ	Ö	ò	Ō	ò	Ö	ż	2	2	2	2
	1333 ppm	n	0	0	0	0	0	0	1	2	2	2	1	1	2
	4000 ppm	3	3	3	2	2	3	4	3	4	3	3	3	2	2
	4000 ppill	ა	ა	3	2	2	s	4	ა	4	J	J	J	2	2
TERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	0	0	0	0	0	0	0	0	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	Ô	0	0	0	0	0	0	0	0	0	0
	1333 ppm	ŏ	Ô	Ö	0	Ö	Ö	0	1	1	1	1	ň	Õ	ŏ
	4000 ppm	0	0	ő	0	Ö	Õ	Õ	Ö	i	Ö	ò	Ö	Ô	Ö
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I ENT EAN	444 ppm	n	0	0	0	0	0	0	0	0	0	0	0	0	0
		v		-					-			·	-	-	-
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

OLA - MALL															1 AUL
linical sign	Group Name	Admini	stration W	eek-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
ATARACT	Control	0	0	0	0	1	1	1	2	2	2	2	2	2	2
HARAGI	444 ppm	1	1	1	1	2	3	3	3	3	3	3	3	3	3
	1333 ppm	'n	0	0	0	0	0	ა 0	ა 0	ა 0	0	ა 0	0	0	0
	4000 ppm	3	3	3	3	4	4	4	4	4	4	4	4	4	4
	4000 ppiii	3	J	ა	J	4	4	4	4	4	4	4	4	4	4
RNEAL OPACITY	Control	1	1	1	1	1	1	1	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILUGULUS (UN	444 ppm	U N	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm 1333 ppm	U n	0				0	0	0	0	0	0	0	0	0
		0	0	0	0	0		0	0	0	0	0	0	0	0
	4000 ppm	U	U	U	0	0	0	U	U	U	U	U	U	U	U
SE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	2	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TERNAL MASS	Control	1	2	4	4	4	4	4	4	5	5	5	5	6	7
The state of the s	444 ppm	2	2	4	3	3	3	4	3	3	3	3	3	5	4
	1333 ppm	2	3	4	3	3	4	4	4	5	5	4	4	5	5
	4000 ppm	2	2	2	3	3	3	2	3	3	3	3	3	3	3
	-1000 ppm	-	-	-	v	·	•	-	·	v	v	·	·	·	Ů
ITERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PER1-MOUTH	Control	n	0	0	0	0	0	0	0	0	0	n	0	n	0
	444 ppm	n	0	0	0	0	0	0	0	n	0	0	0	2	1
	1333 ppm	ñ	0	0	0	0	0	0	0	0	0	0	0	1	i
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	Ö
מרמי רומ	0	•	^	•	•	•	•	•	•	•	•	•		•	
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	444 ppm	U	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	U	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	U	0	0	0
HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ô	Õ	Ö	Ö	Ö	Õ	Ô	Õ	Ô	0	Õ	Õ	Ŏ	ő
	1333 ppm	0	0	0	Õ	0	Õ	0	Ö	0	0	0	Õ	0	Õ
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppiii	v	U	U	U	U	U	U	U	U	U	U	U	v	U

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

linical sign	Group Name	Admini	stration W	eek-dav									***		
		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
TABACT	Oznakoval	٥	0	0	0	0	0	a	0	2	0	•	1	1	1
ATARACT	Control	2 3	2 3	2 3	2 3	2	2	2 3	2 3	2 4	2 4	3	3	3	3
	444 ppm	3	3 1	3		3	3				3	ა 3	3	3	3
	1333 ppm	U	1	- 1	1 4	1	3 4	3 4	3 4	3 4	3	3 1	3 4	J A	4
	4000 ppm	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ORNEAL OPACITY	Control	0	0	0	0	0	0	0	1	1	1	0	0	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	2	2	2	2	2	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALOCCLUSION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	444 ppm	0	1	1	1	1	1	1	1	ĭ	0	ő	Õ	Õ	Ö
	1333 ppm	n	Ó	Ó	0	0	Ó	0	Ó	Ö	0	0	0	0	0
	4000 ppm	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	4000 ppili	U	U	U	U	U	. '	i	ı	i	t	'	'	1	1
OSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XTERNAL MASS	Control	8	8	8	8	8	8	9	11	11	11	9	9	10	10
ATEMATE MATO	444 ppm	3	3	3	3	3	3	3	3	4	3	3	4	4	5
	1333 ppm	5	5	5	5	5	5	5	6	6	8	7	7	6	6
	4000 ppm	3	3	3	3	3	4	4	5	5	5	5	5	4	4
	4000 ppiii	J	J	J	J	J	4	4	J	J	J	J	J	7	7
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI-MOUTH	Control	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0	Ö	Ö	0	Ó	Ó	'n	Ö	ò
	1333 ppm	1	1	1	1	1	1	1	1	1	2	1	1	1	1
	4000 ppm	Ó	0	0	0	0	Ó	Ó	ò	Ö	0	Ö	Ó	Ö	Ö
2521 515						_									
. PERI EAR	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	1	1	1	1	1	0	0
HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	ñ	0	0	Õ	Ö	0	0	0	0	Õ	0	Ŏ	Õ	Õ
	1333 ppm	0	Ô	0	0	0	0	0	0	0	1	1	1	Ö	ŏ
	4000 ppm	0	0	0	0	0	0	0	0	0	Ö	'n	Ö	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admin	istration	Week-day						
orinioar orga	aroup mano	99-7	100-7	101-7	102-7	103-7	104-7			
ATARACT	Control	2	2	2	1	. 1	1			
SATARAGI	444 ppm	3	3	3	3	3	3			
	1333 ppm	3	3	3	2	2	2			
	4000 ppm	4	4	5	5	5	5			
DRNEAL OPACITY	Control	0	0	0	0	0	0			
	444 ppm	0	0	0	0	0	0			
	1333 ppm	0	0	0	0	0	0			
	4000 ppm	0	0	0	0	0	0			
ALOCCLUSION	Control	1	1	1	1	1	1			
71E-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	444 ppm	Ó	Ö	0	0	Ó	0			
		-	0	0						
	1333 ppm	0			0	0	0			
	4000 ppm	1	1	1	1	1	1			
DSE HEMORRHAGIC DISCHA	Control	0	0	0	0	0	0			
	444 ppm	0	Ō	Ō	Ō	Ō	0			
	1333 ppm	0	Õ	Õ	Ô	0	ŏ			
	4000 ppm	0	0	0	0	0	0			
	4000 ppill	U	U	U	U	U	U			
XTERNAL MASS	Control	9	10	10	11	11	11			
	444 ppm	5	5	5	5	5	6			
	1333 ppm	6	6	5	5	5	5			
	4000 ppm	6	6	5	5	5	5			
NTERNAL MASS	Control	0	0	0	0	0	0			
	444 ppm	Õ	Ö	Ö	Ö	1	1			
	1333 ppm	1	. 1	1	1	2	2			
	4000 ppm	0	1	0	0	0	0			
	4000 ppm	U	1	U	U	U	U			
PERI-MOUTH	Control	1	1	1	1	1	1			
	444 ppm	0	0	0	0	0	0			
	1333 ppm	1	1	1	1	1	1			
	4000 ppm	0	0	0	0	0	0			
PERI EAR	Control	0	0	0	0	0	0			
	444 ppm	0	0	0	0	0	Ö			
	1333 ppm	0	0	0	0	0	0			
	4000 ppm	0	0	0	0	0	0			
	4000 ppm	U	U	U	U	U	U			
HEAD	Control	0	0	0	0	0	0			
	444 ppm	0	0	0	0	0	0			
	1333 ppm	0	0	0	0	0	0			
	4000 ppm	0	Ō	0	Ō	0	0			

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Adminis	stration We	ek-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
I NEOV	O and hard	0		•	0	0	0	0	0		0	٥	0	0	0
M. NECK	Control	0	0	0	0	0	0	0	0 0	0 0	0 0	0 0	0 0	0	0
	444 ppm	0	0	0	0	0	0	0	-			U	0	0	0
	1333 ppm	U	0	0	0	0	0	0	0	0	0 0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	U	U	U	U	U	U	U	U
I. FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ö	0	0	0	0	0	0	0	Ô	0	0	Ő	Õ	Õ
	1333 ppm	0	0	0	0	0	0	0	0	Û	Ô	Ô	0	Õ	Õ
	4000 ppm	0	0	0	0	0	0	0	0	0	0	n	0	0	0
	4000 ppiii	U	U	U	U	U	U	U	U	U	U	U	U	Ū	Ü
. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	ñ	Ö	Ö	Ö	Ö	Ö	Õ	Õ	Ō	Ö	0	Ō	0	0
	1333 ppm	ñ	Ö	Õ	Õ	Ö	Ö	Ö	Ö	Õ	Ō	Ō	Ō	Ō	0
	4000 ppm	Ď	ŏ	Ŏ	Õ	Õ	Ö	Õ	ñ	Õ	Õ	Õ	ō	Õ	Ō
	1000 pp	J	v	Ů	·	Ü	Ü	·	Ü	v	ŭ		•	-	
POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ō	Ö	Õ	Ö	Õ	Õ	Ö	Ö	Ö	Ö	Ō	Ō	Ō	0
	1333 ppm	Õ	Ŏ	ŏ	Ö	Õ	Ö	Ö	ŏ	Ŏ	Ô	Õ	Õ	Ö	Ö
	4000 ppm	0	Õ	Ö	Ö	Ö	Ö	Õ	Ö	Ö	Õ	Ö	Ö	Ö	0
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. ULNI IALIA	Control 444 ppm	•	0	-				0	0	0	0	0	0	0	0
		0	-	0	0	0	0		-	•	-	_		•	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0 N	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	U	U	U
SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	Ô	Ō	Ō	0	Ō	0	Ô	0	0	0	0	0

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : MALE

SEX : MALE															PAGE :
Clinical sign	Group Name		stration V						4						
		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
I. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. HEGN	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	Ô
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	0	n
	4000 ppm	0	0	0	0	0	0	0	0	0	ő	Ö	Ő	0	0
FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. BREAST	Control	0	0	0	0	0	0	0	0	0	.0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	U
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	U
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	U
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	U
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	U
POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	U
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	. 0	0	0	0	0	0	0	0	0	0	0	0	0	U
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : MALE

Clinical sign	Group Name	Admini	stration W	leek-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
1. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. NEUK	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		-							_	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0 0			-	0	0	0
	4000 ppm	0	0	0	0	0	0	0	U	0	0	0	U	U	U
FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Ö	0	Ö	0	Õ	0	Ô	Õ	Õ	Õ	Õ	Ö	Ö
	1333 ppm	0	0	0	0	0	Ö	0	0	0	Ö	Ö	Õ	Ö	ñ
	4000 ppm	0	0	0	0	0	0	0	0	0	0	Ô	0	Õ	ő
	4000 ppiii	U	U	U	U	υ	U	U	U	U	U	U	U	Ū	J
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ō	Ō	Õ	Ō	Ō	Ō	Ō	Ō	0	0	0	0	0	0
	1333 ppm	Ō	Ō	ō	Ö	Ō	ō	Ō	Ō	0	0	0	0	0	0
	4000 ppm	ŏ	Ô	Ô	0	Ô	ŏ	Õ	ň	ő	Õ	Õ	Õ	Õ	Ō
	4000 ppm	v	U	v	Ū	Ū	Ū	Ū	Ü	v	·	Ü	v	•	
POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	Ŏ	Ô	ŏ	Ö	Õ	ŏ	Õ	Õ	Õ	Ö	Ō	Ō	Ō	0
	4000 ppm	0	Ö	Ō	Ō	Ö	Ö	Ö	Õ	Ō	0	0	0	0	0
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CULTIALIA	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		•	_						0	-		0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	_	0	0	-	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	U	U	U
SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	Ō	Ō	Ō	0	0	0	0	0	0	0	0	0

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104

SEX : MALE

Clinical sign			stration W												
	Group Name	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
. NEOV		•			•	•			•	•	•	•			0
I. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0
. ABDOMEN	Control	1	0	0	0	0	0	0	0	0	0	0	0	0	0
· · · · · · · · · · · · · · · · · · ·	444 ppm	'n	0	0	0	0	Ö	Ö	Õ	Ö	Õ	Õ	Ŏ	Õ	ő
	1333 ppm	0	0	0	0	0	0	0	0	0	Õ	Ö	Õ	Ö	ő
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	ő	Ô	0
ANTERIOR DORSUM	Control	a	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR DORSON	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ô	0
	1333 ppm	0	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	1	1
	4000 ppm	U	U	U	U	U	Ū	U	U	U	υ	U	ı	4	1
. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Ö	Ö	Ŏ	Õ	Ō	Ö	0	Ö	Ō	Ō	0	0	0
	1333 ppm	Ō	0.	Ö	Ö	0	Õ	Ö	Õ	Õ	Ö	Ō	Õ	0	0
	4000 ppm	Ö	Ö	ĭ	1	ĭ	1	1	ĭ	1	1	i	Õ	Ō	0
SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JONO I UM	444 ppm	n	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

linical sign	Group Name	Admini	stration W	leek-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
. NECK	Control	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	444 ppm	0	Ō	Ô	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	2	2	2	2	2
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	4000 ppm	1	1	1	1	1	2	2	2	2	2	2	2	1	1
POSTERIOR DORSUM	Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HINDLIMB	Control	0	0	0	0	1	1	1	1	1	1	1	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-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
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FORELIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. BREAST	Control	0	0	2	2	1	1	2	2	2	2	2	2	2	2
•	444 ppm	2	2	2	2	1	1	1	ī	1	1	1	1	1	1
	1333 ppm	Õ	Õ	Õ	Õ	Ö	Ö	ò	Ö	ò	ò	Ô	ò	Ö	ò
	4000 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
		· ·					_		·	•				•	•
I. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	444 ppm	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	1333 ppm	0	1	1	1	1	1	1	1	1	1	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR DORSUM	Control	1	2	2	2	3	3	3	3	3	3	3	3	3	3
	444 ppm	0	1	1	1	2	2	2	2	2	2	2	2	2	2
	1333 ppm	1	1	2	i	1	2	2	2	3	3	3	3	3	3
	4000 ppm	1	i	1	2	2	2	1	ī	1	1	1	1	1	1
				•											
. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	444 ppm	0	0	1	0	0	0	1	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ö	0	Ö	Ö	0 .	Ö	Õ	Ô	ŏ	Õ	Õ	Ö	Ö	ñ
	1333 ppm	0	0	0	0	0	0	0	0	0	Ö	Ö	0	Õ	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	чосо ррш	U	U	U	υ	U	U	U	U	U	U	U	U	v	3
SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

SEX : MALE															PAGE :
Clinical sign	Group Name		stration W												
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		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
NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. HEGI	444 ppm	0	0	0	Ö	0	0	0	0	Ö	0	Õ	Õ	Ö	Ŏ
	1333 ppm	0	0	0	0	0	0	0	0	0	0	Õ	Ô	Ö	Ŏ
	4000 ppm	0	0	0	0	0	0	0	0	0	0	ő	ő	Ő	Ö
FORELIMB	Control	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BREAST	Control	3	3	3	3	3	3	3	5	5	5	5	5	6	6
	444 ppm	1	1	1	1	1	1	1	1	1	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ABDOMEN	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1333 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR DORSUM	Control	3	3	3	3	3	3	3	3	3	3	1	1	1	1
	444 ppm	2	2	2	2	2	2	2	2	3	2	2	3	3	4
	1333 ppm	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	4000 ppm	1	1	1	1	1	2	2	2	2	2	2	2	2	2
POSTERIOR DORSUM	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HINDLIMB	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCROTUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admin	istration	Week-dav			
	a. oup mano	99-7	100-7	101-7	102-7	103-7	104-7
M. NECK	Control	0	0	0	0	0	0
	444 ppm	Ō	ō	Õ	Ö	ō	Ō
	1333 ppm	Ö	Õ	ő	Ö	ő	Ŏ
	4000 ppm	0	Ö	0	Õ	Õ	0
	1000 ppm	J	Ü	Ü	J	v	v
M. FORELIMB	Control	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	Ō	0	0	Ō	0
	чосо ррш	Ŭ	·	·	·	•	ŭ
M. BREAST	Control	6	6	7	7	7	7
	444 ppm	Ö	ŏ	Ô	Ò	0	0
	1333 ppm	Ô	Õ	ŏ	Ö	Ö	Õ
	4000 ppm	2	2	1	1	1	1
	1000 PP.III	-	-	•	•	•	•
M. ABDOMEN	Control	1	1	1	1	1	1
	444 ppm	i	i	i	1	i	1
	1333 ppm	i	1	i	1	1	i
	4000 ppm	i	1	1	1	1	1
	, ,	•	•	•	•	•	-
M. ANTERIOR. DORSUM	Control	1	2	1	2	2	2
	444 ppm	4	4	4	4	4	5
	1333 ppm	3	3	3	3	3	3
	4000 ppm	2	2	2	2	2	2
	• •		***				•
M. POSTERIOR DORSUM	Control	2	2	2	2	2	2
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	Ō	Ō	Ō	Ō	Ō
	•						
M. HINDLIMB	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
M. GENITALIA	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
M. SCROTUM	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : MALE

linical sign	Group Name	Admini	stration We	ek-day											
WWW.HAM.		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
rail -	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ō	Ō	Ō	ō	Ö	Ö	Ō	Ō	Ö	0	0	0	0	0
	1333 ppm	0	Ō	Ō	Ō	Ō	Ō	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATZ	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORMAL TESTIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

JEA . HUICE															****
Clinical sign	Group Name	Admini	stration V	leek-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
TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_CER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	Ō	0	0	0	0	0	0	0	0	0	0
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Õ	Ö	Ö	Õ	Ö	Õ	Ō	Ö	Ō	0	0	0	0	0
	1333 ppm	Ō	Ō	0	Ō	0	Ō	Ō	0	Ô	0	0	0	0	0
	4000 ppm	Ö	Ō	0	Ō	Ō	Ō	0	0	0	0	0	0	0	0
EMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Õ	Ŏ	Ö	Ö	Ö	Õ	Ō	Ō	Ō	0	0	0	0	0
	1333 ppm	Õ	Ö	Ö	Õ	Ō	Õ	Ō	Ö	Ō	Ō	Ō	0	Ō	0
	4000 ppm	ñ	0	Õ	Õ	Ô	Õ	Õ	Õ	Õ	Õ	Õ	Õ	Ō	Ô
		v	•	Ŭ	Ü	•	·	J	-	v	Ť	_	•		•
BNORMAL TESTIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Ō	0	Ō	Ō	Ō	Ö	0	0	0	0	0	0	0
	1333 ppm	Ö	Ö	Õ	Ŏ	Õ	Õ	Ō	Ö	ŏ	Ö	Ŏ	Õ	Ö	. 0
	4000 ppm	Õ	Ö	Õ	Ö	Õ	Ö	Ö	0	0	Ö	0	Ö	0	0
ESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	Ö	0	0	0	0	0
TO TRATORT SOUR ANIOR	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ррт 1333 ррт	0	0			-	-	0	-	•	0	0	0	0	0
	1333 ppm 4000 ppm	0	0	0 0	0 0	0 0	0 0	0	0 0	0 0	0	0	0	0	0
	4UUU ppm	U	U	U	U	U	U	U	U	U	U	υ	U	U	U

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

LA . MALL															
linical sign	Group Name	Admini	stration W	leek-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
		_	_			_	_		_				•	•	0
TAIL	Control	0	0	0	0	0	0	0	0 0	0	0 0	0 0	0 0	0 0	0 0
	444 ppm 1333 ppm	0 n	0 0	0 0	0 0	0 0	0 0	0 0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ô
EMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORMAL TESTIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

SEX : MALE															FAUL .
Clinical sign	Group Name	Admini	stration W	eek-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 TAU	01	0	0	0	0	٥	0	٥	0	٥	0	0	0	0	0
M. TAIL	Control	U	0	0	0	0	0	0 1	0	0	0 0	0 0	0	0	0
	444 ppm	0	0	0	0	0	0	•	0	0	0	-	0	0	0
	1333 ppm	U	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	U	U	U	U	U	U
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JLCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	ő	0	0	0	0	0	0	Õ	0	Õ	Ö	Õ	Ö	Ö
	1333 ppm	n o	0	0	0	0	Ö	0	0	0	Õ	0	Ö	ő	Ö
	4000 ppm	Ö	0	0	0	0	1	1	1	1	ĭ	1	1	1	1
	1000 pp	•	·	·	•	•	·		•	,					
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Ō	Ō	1	0	0	0	0	0	0	0	0	0	0
	1333 ppm	Ō	Õ	Õ	Ö	Ō	Ō	Ō	0	0	0	0	0	0	0
	4000 ppm	ñ	ñ	Õ	Ŏ	0	Õ	Õ	ō	Ō	Ō	0	0	0	0
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·	•	· ·	•	•									
BNORMAL TESTIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	n	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ō	Õ	Õ	ŏ	Ö	Ö	Ö	ō	Ō	Ō	Ō	0	0	0
	1333 ppm	Õ	Ŏ	Õ	ŏ	Ö	Õ	0	Õ	Ö	Ö	Ö	Ō	Ō	0
	4000 ppm	0	0	Õ	Ö	Ô	Ō	Ö	0	Ō	0	0	0	0	0
RREGULAR BREATHING	Control	n	0	0	0	0	0	0	0	0	0	0	0	0	0
MEGOLAN DILATITING	444 ppm	0	0	0	0	0	0	0	0	0	0	n	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppiii	U	U	U	U	U	U	U	U	U	U	U	U	U	U
ESPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

en . mile															
linical sign	Group Name		stration V	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
TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IAIL	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	4000 ppm	Õ	Õ	ő	Ô	Ô	Ö	Ö	Ö	Ö	Ö	ò	Ô	Ö	Ö
EMIA	Control	0	0	0	0	0	0	0	0	1	1	1	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	4000 ppm	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
USTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORMAL TESTIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

linical sign	Group Name	Admini	stration W	eek-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
							_							•	
. TAIL	Control	0	0	0	0	0	0	0	0	U	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	Ü	0	0	0	0	0
	1333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	1	1	0	1	1	1	1	1	1
	1333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.CER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	1333 ppm	0	Ö	Ô	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Ö	0	Ö	Ö	Ö	Ô	ñ	Õ	Õ	Ö	ő	Ö	Õ
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
"NODDILLOS		•			•	•	•	•	•	•	0	٥		•	
EMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	U
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	ı
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORMAL TESTIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	Ō	Ō	Ō	Ō	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	Õ	0	0	0	0	0	0	0	0	0	0
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Ö	Õ
	1333 ppm	1	1	1	1	1	1	1	1	0	0	0	0	1	1
	4000 ppm	Ö	0	0	0	0	0	0	0	0	0	0	0	Ö	'n
	4000 ppili	U	U	U	υ	U	U	v	U	U	U	U	U	U	J
SPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

EX : MALE															FAGE .
linical sign	Group Name		stration W												
		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
TAIL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAIL	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	0	Ö	Ó	0	Ö	0	Ö	Ö	Ó	Ö	Ó	Ö	ò	Ô
EMIA	Control	0	0	0	0	0	0	0	0	1	1	0	0	0	1
	444 ppm	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	2
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	0	0
CER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	1	1	0	0	1	1	1	.1	1	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORMAL TESTIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RTICOLLIS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	1	1	0	0	0
	444 ppm	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
SPIRATORY SOUND ABNOR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	Ō	ñ	Ō	Ö	Õ	Ō	Ō	Ō	Õ	Ō	Ō	0	0	0

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : MALE

Control Quantity Quantity
Control 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
444 ppm
444 ppm
444 ppm
1333 ppm
Control 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Control 1 0 0 0 0 0 0 1 1 1 333 ppm 2 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
444 ppm
1333 ppm
1333 ppm
4000 ppm 0 1 1 1 1 1 1 1 Control 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
444 ppm 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 333 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
444 ppm 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 333 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1333 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4000 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Control 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
444 ppm 0 0 0 0 0 0 0 0 0 1 1333 ppm 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
444 ppm 0 0 0 0 0 0 0 0 0 1 1333 ppm 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1333 ppm
4000 ppm 2 1 1 1 1 1 1 Control 0 0 0 0 0 0 1 444 ppm 1 0 0 0 0 0 0 1333 ppm 0 0 0 0 0 0 0 4000 ppm 0 0 0 0 0 0 0 Control 0 0 0 0 0 0 0 444 ppm 1 1 1 1 1 1 1 1333 ppm 1 1 1 1 1 1 1 4000 ppm 0 1 1 1 0 0 0 Control 0 0 0 0 0 0
Control 0 0 0 0 0 0 1 444 ppm 1 0 0 0 0 0 0 1333 ppm 0 0 0 0 0 0 0 4000 ppm 0 0 0 0 0 0 0 Control 0 0 0 0 0 0 0 444 ppm 1 1 1 1 1 1 1 1333 ppm 1 1 1 1 1 1 1 4000 ppm 0 1 1 1 0 0 0 Control 0 0 0 0 0 0
444 ppm 1 0 0 0 0 0 0 0 1333 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
444 ppm 1 0 0 0 0 0 0 0 1333 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1333 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4000 ppm 0 0 0 0 0 0 0 Control 0 0 0 0 0 0 0 444 ppm 1 1 1 1 1 1 1 1333 ppm 1 1 1 1 1 1 1 4000 ppm 0 1 1 0 0 0 Control 0 0 0 0 0
Control 0 0 0 0 0 0 0 0 444 ppm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
444 ppm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1333 ppm
4000 ppm 0 1 1 0 0 0 Control 0 0 0 0 0
4000 ppm 0 1 1 0 0 0 Control 0 0 0 0 0
444 ppm 0 0 0 0 0 0
1333 ppm 0 0 0 0 0
4000 ppm 0 0 0 0 0 0
IG Control 0 0 0 0 0
444 ppm 0 0 0 0 0
4000 ppm 0 0 0 0 0
ABNOR Control 0 0 0 0 0
444 ppm 0 0 0 0 0 0
1333 ppm 0 1 0 0 0
4000 ppm 0 0 0 0 0 0

STUDY NO. : 0739

ANIMAL : RAT F344/DuCriCrij [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : MALE

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SLA - MALL															True . o
Clinical sign	Group Name	Admini	stration W	eek-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
YELLOW URINE	Control	n	0	0	0	0	n	n	n	n	n	0	n	n	0
TEELOW ON THE	444 ppm	0	n	n	n	0	n	n	0	n	0	0	Ô	ñ	ñ
	1333 ppm	n	n	n	0	0	ő	ñ	Ô	n	Õ	ñ	0	ñ	Ô
	4000 ppm	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Õ	Ö	0
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	444 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1333 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	4000 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50

BAIS 5 (HAN190)

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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YELLOW URINE Control 444 ppm 1333 pp 4000 pp SMALL STOOL Control 444 ppm 1333 pp 4000 pp OLIGO-STOOL Control 444 ppm 1333 pp 4000 pp	15-7 I 0 n 0 om 0 om 0 om 0 om 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	22-7 0 0 0 0	0 0 0 0 0	0 0 0 0 0	25-7 0 0 0 0	26-7 0 0 0 0	27-7 0 0 0 0	28-7 0 0 0 0
444 ppm 1333 pp 4000 pp SMALL STOOL Control 444 ppm 1333 pp 4000 pp OLIGO-STOOL Control 444 ppm 1333 pp	n 0 om 0 om 0 om 0 om 0 om 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0	•	0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
444 ppm 1333 pp 4000 pp SMALL STOOL Control 444 ppm 1333 pp 4000 pp OLIGO-STOOL Control 444 ppm 1333 pp	n 0 om 0 om 0 om 0 om 0 om 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0	•	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0
1333 pp 4000 pp SMALL STOOL Control 444 ppm 1333 pp 4000 pp DLIGO-STOOL Control 444 ppm 1333 pp	om 0 om 0 I 0 n 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0	0 0 0	0 0	•	0	0	0	0	0 0	0	0
### \$\text{A000 pp} #### \$\text{SMALL STOOL}	om 0 I 0 n 0 om 0	0 0 0 0	0 0 0	0 0 0	0 0 0	0	•	0	0	0	0	0	0	0
SMALL STOOL Control 444 ppm 1333 pp 4000 pp OLIGO-STOOL Control 444 ppm 1333 pp	0 n 0 om 0	0 0 0	0 0 0	0	0	0	•	-	0	0	0	0	n	n
444 ppm 1333 pp 4000 pp 0LIGO-STOOL Control 444 ppm 1333 pp	n O om O	0 0 0	0 0 0	0 0 0	0		0	0	0	0	0	0	n	n
444 ppm 1333 pp 4000 pp DLIGO-STOOL Control 444 ppm 1333 pp	n O om O	0	0	0			0	0					U	U
1333 pp 4000 pp DLIGO-STOOL Control 444 ppm 1333 pp	om O	0	0	ń	n			U	U	0	0	0	0	0
4000 pp DLIGO-STOOL Control 444 ppm 1333 pp		^			0	0	0	0	0	0	0	0	0	0
444 ppm 1333 pp		U	0	0	0	0	0	0	0	0	0	0	0	0
444 ppm 1333 pp													_	_
1333 pp		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
4000 nn		0	0	0	0	0	0	0	0	0	0	0	0	0
4000 pp	om 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	49	50
444 ppm		50	50	50	50	50 50	50	50	50	50	50	50	50	50
1333 рр		50	50	50	50	50	50	50	50	50	50	50	49	49
4000 pp		50	50	50	50	50	50	50	50	50	50	50	50	50

(HAN190) BAIS 5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCriCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : MALE

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Clinical sign	Group Name	Admini	stration W	eek-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	42-1
YELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	n	n	n
TELLUW UKINE	Control 444 ppm	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	n	0	n
	4000 ppm	U n	0	0	0	0	0	0	0	0	n	0	n n	0	n
	4000 ppm	U	U	U	U	U	U	U	U	U	U	U	U	U	U
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DLIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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	49	49	49	49	49	49
	444 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1333 ppm	49	49	49	49	49	49	49	49	48	48	48	47	47	48
	4000 ppm	50	50	50	50	49	45	42	42	42	42	42	34	34	32

BAIS 5 (HAN190)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : MALE

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Clinical sign	Group Name	Admini	stration W	eek-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
VELLOW UP IN		•	•					•	۰	•		•	0	0	0
YELLOW URINE	Control	U	U	U	U	0	0	U	0	U	0	0	0	0	U n
	444 ppm	U	U	U	U	0	0	U	0	U	Ū	U	0	0	0
	1333 ppm	U	U	U	U	0	0	0	0	U	Ü	U	U	U	U
	4000 ppm	0	U	Ü	0	0	0	0	0	0	0	U	U	U	U
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DL1G0-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	48	49	49	49	49	49	49	49	49	49	49	49	49	49
	444 ppm	50	50	50	49	48	50	48	49	49	49	49	49	49	49
	1333 ppm	48	48	48	48	48	48	48	47	47	47	47	47	47	48
	4000 ppm	32	28	28	28	28	26	26	26	26	23	23	23	23	21

(HAN190) BAIS 5

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Admini	stration W	eek-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
YELLOW URINE	Combust	0	0	0	0	n	0	0	0	0	0	0	0	0	n
TELLUW UKTNE	Control 444 ppm	U	U	U	0 0	0 0	0	U	0	U O	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	n	0
	4000 ppm	0	0	0	0	0	0	0	0	0	n	n	0	n	n
	4000 ppiii	U	U	U	U	U	U	U	U	U	U	U	U	U	U
SMALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	444 ppm	0	0	0	Ō	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	0	0
DL1GO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	444 ppm	0	Ō	0	Ō	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ION REMARKABLE	Control	49	49	49	50	49	49	48	49	49	48	46	46	46	46
	444 ppm	49	49	49	49	49	49	49	49	49	47	47	47	47	47
	1333 ppm	47	47	46	47	47	47	47	46	43	43	43	44	44	43
	4000 ppm	21	22	22	20	17	17	17	17	17	16	16	16	15	15

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BAIS 5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCr!Crlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : MALE

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Clinical sign	Group Name	Admini	stration W	leek-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
VELLOW HOLNE	Cambual	0	0	0	0	0	0	0	0	0	0	0	n	n	n
ELLOW URINE	Control	Ü	U	Ü	0	0	U	0	U	U	0	0	0	n	0
	444 ppm	U	U	U	0	0	Ü	-	U O	U	0	0	0	0	0
	1333 ppm	U	U	U	0	0	U	0	U	0	U	U	U	0	U
	4000 ppm	U	U	U	0	0	0	0	U	0	0	U	U	U	U
MALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	1	1	1	0	0	0	0	0
	1333 ppm	0	0	1	0	0	0	0	0	0	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	1	1	1	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ON REMARKABLE	Control	46	45	44	44	44	44	44	44	43	43	43	43	42	41
	444 ppm	47	47	45	46	44	43	38	39	39	39	39	39	37	38
	1333 ppm	43	42	41	42	42	41	41	41	38	38	39	39	38	38
	4000 ppm	12	10	10	7	6	7	7	7	6	6	5	6	6	6

BAIS 5 (HAN190)

ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Admini	stration W	eek-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
WELL ON THE THE			•		•	•	•	•	•			•	•	•	0
ELLOW URINE	Control	0	0	0	0	0	0	U	U	U	0	U	U	U	U
	444 ppm	0	Ü	0	0	0	U	U	U	1	1	1	U	U	U
	1333 ppm	0	0	0	0	0	0	0	0	0	Ü	0	U	I	1
	4000 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	1	1	1	0	1	1
	444 ppm	0	0	0	0	0	0.	0	0	1	1	0	0	0	0
	1333 ppm	0	0	0	1	0	0	0	0	0	0	0	0	1	2
	4000 ppm	0	1	1	1	1	1	0	0	0	0	1	0	0	0
LIGO-STOOL	Control	0	0	0	0	0	0	0	0	0	2	1	0	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	1	0	0	0	0	0	0	0	1	0	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	0
ON REMARKABLE	Control	40	40	40	40	40	40	39	36	36	35	34	34	32	31
	444 ppm	38	37	37	37	37	37	37	37	33	33	33	32	32	30
	1333 ppm	38	37	37	36	36	35	35	34	34	32	33	31	29	27
	4000 ppm	6	6	7	6	6	6	6	6	6	6	19	18	14	14

CLINICAL OBSERVATION (SUMMARY)

(HAN190)

BAIS 5

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

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Clinical sign	Group Name	Admin	istration	Week-day _			
		99-7	100-7	101-7	102-7	103-7	104-7
YELLOW URINE	Control	0	0	0	0	n	0
TELLUW UKINE	Control	U	-	Ü	U	U	U
	444 ppm	U	0	0	U	1	1
	1333 ppm	2	3	3	1	2	2
	4000 ppm	1	1	0	0	0	0
SMALL STOOL	Control	n	0	0	1	1	0
SMALL STOOL		1	0	0	1	,	
	444 ppm	1	0	U	U	U	0
	1333 ppm	2	2	!	1	1	2
	4000 ppm	0	0	1	2	0	0
OLIGO-STOOL	Control	0	0	0	0	0	0
	444 ppm	Ô	Õ	1	1	1	0
	1333 ppm	1	1	i	2	2	2
	4000 ppm	'n	ò	i	1	Ō	Ō
	4000 ppiii	v	· ·	·	,	· ·	Ü
NON REMARKABLE	Control	29	28	28	27	27	27 25 25 20
	444 ppm	29 29	29	28	28 25 12	26	25
	1333 ppm	25	25	27	25	25	25
	4000 ppm	13	13	12	12	25 21	20
	TOOU PPIII	, -					

(HAN190)

BAIS 5

TABLE B 2

CLINICAL OBSERVATION: FEMALE

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

linical sign	Group Name	Admini	stration Wo	eek-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
EATH	Cantual	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ain	Control 444 ppm	0	0 0	0	-	0 0	0 0	0	0	0 0	0	0	0	0	0
		0			0			0	0	0	0	0	0	0	n
	1333 ppm	Ü	0	0	0	0	0 0	0	0	0	0	n	0	0	0
	4000 ppm	0	0	Ü	0	0	U	U	U	U	U	U	U	U	U
DRIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ö	Ō	Õ	Õ	Ö	Ō	Ō	Õ	Ö	Ō	0	0	0	0
	1333 ppm	ŏ	Õ	Õ	Õ	Õ	Ö	Ö	Õ	ŏ	Ō	Õ	Ō	Ō	0
	4000 ppm	ŏ	0	Õ	0	Ő	ŏ	Õ	Õ	Õ	ñ	0	ŏ	Ō	Õ
	TOOU PAIN	v	U	v	U	Ū	v	U	J	Ü	u	Ū	v	·	ŭ
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	ñ	Õ	Ö	Ö	Õ	ŏ	Õ	Ö	Ŏ	ñ	Õ	Ō	Ō	Ō
	1333 ppm	ŏ	Ö	Ö	Ö	Ö	Ŏ	Õ	Ö	Ö	Ō	Õ	Ō	Ō	0
	4000 ppm	Ô	n	0	0	0	0	0	0	0	Ô	Ô	ñ	Õ	Õ
	4000 ppiii	U	Ū	U	U	U	Ü	Ū	v	·	Ū	Ū	ŭ	Ü	ŭ
DLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	1	1	7	7	7	7
	4000 ppm	0	0	0	0	0	0	0	0	10	10	16	16	16	16
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	ŏ	Ŏ	Ŏ	Ö	Ö	ŏ	Ŏ	Õ	Õ	Õ	Õ	Õ	Ö	Õ
	1333 ppm	ŏ	0	Ö	Ö	Ö	ŏ	Õ	Ö	Õ	Õ	Õ	Õ	Ō	Õ
	4000 ppm	0	Ô	Ő	0	0	ő	Ő	Ö	Ô	Ö	Ö	Ö	Ö	0
SS OF HAIR	Control	0	n	0	0	0	0	0	0	0	0	0	0	0	0
JOS OF TATK		0	0		-	0	0	0	0	0	0	0	0	0	0
	444 ppm	-	-	0	0	0	-				-	-	_	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	U A	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	U	U	U	U
ILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	6	6	6	3	3	0	0	0	0
	4000 ppm	0	1	2	2	2	17	19	20	3	3	0	0	Ο	0

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

REPORT TYPE : A1 104

SEX : FEMALE

linical sign	Group Name	Admini	stration W	leek-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
EATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ő	0	Õ	Ö	0	Ö	Õ	ő	Ö	Õ	Ô	Õ	Õ	Ö
	1333 ppm	Ô	Ô	Õ	Ö	Ö	Ö	Ö	Ö	Õ	Ō	Ō	0	0	0
	4000 ppm	0	Ō	0	Ö	0	0	0	0	0	0	0	0	0	0
RIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	U	0	0	0	0	0	0	0	0	0	0	0 n	0 0	
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	U	U	0
RALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	U	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0 n	0 0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	U	U	U	U
ILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	U
LORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	2	2	2	2	0	0	0	0	1	1	1	1	1	1
	4000 ppm	10	10	13	16	15	15	13	13	18	18	21	21	20	20
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ü	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	U	U	U
SS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	U	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ü
ILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0.	0	0	0	0	0

STUDY NO. : 0739 ANIMAL : RAT F344/DuCriCrij[F344/DuCrj]

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

)C/(· I LIMICE															77102
Clinical sign	Group Name	Admini	stration W	leek-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
EATH	Combust	0	0	0		•	•	•	•	•	,		1	1	1
EATH	Control 444 ppm	0	0 0	0 0	1 0	1 0	0	1 0	0	0	0	0	1 0	1 0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DRIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	1	1	1	1	1	0	0	1	1	1	1	1	4
	4000 ppm	23	23	21	21	23	23	20	31	29	29	29	30	30	30
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō
	444 ppm	0	0	0	0	0	, 0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

linical sign	Group Name	Admini	stration W	eek-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
ATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1111	444 ppm	'n	0	Ó	1	1	i	1	i	1	1	i	i	ż	2
	1333 ppm	0	0	0	Ó	Ó	0	0	0	0	Ó	Ó	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	1333 ppm	5	5	6	6	7	7	9	10	10	14	14	14	14	19
	4000 ppm	29	29	29	29	28	27	28	31	31	32	32	32	32	33
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	1	0	0	0	0	0	1	1	0	1	0	0
	1333 ppm	1	1	1	2	2	3	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

JEA . TEMALE															, Auc .
Clinical sign	Group Name	Admini	stration W	eek-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
EATH	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	2	2	2	2	2	2	2	3	3	3	3	3	3	3
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	Ō	0	Ō	0	0	0	0	0	0	0	0	0	0
	4000 ppm	Ō	Õ	0	Ö	Õ	Õ	ō	Ō	Ō	0	0	0	0	0
ARALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Ō	0	Ō	0	0	0	0	0	0	0	0	0	0
	1333 ppm	Ô	Ö	Ö	Õ	Ô	Ō	Ō	Ö	0	Õ	Ō	0	0	0
	4000 ppm	ő	Ö	0	ő	Õ	Õ	Ŏ	Ö	Ö	Ō	Ō	Ō	0	0
DILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ô	Õ	Ö	Õ	Ö	Ö	1	Õ	ō	Ö	Õ	Ō	0	0
	1333 ppm	n	0	0	0	0	Ö	Ö	Ö	Õ	Ö	Õ	Ö	Ô	Ō
	4000 ppm	0	0	n	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	v	U	U	U	U	U	U	U	U	U	U	U	U	U
OLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	19	23	23	23	23	23	24	21	22	24	26	26	28	28
	4000 ppm	34	37	38	38	38	38	38	37	37	36	36	36	36	37
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Ö	Õ	Õ	0	Ō	Ö	Ō	Ō	Ō	0	0	0	0
	1333 ppm	ñ	Ö	ő	Ö	0	Õ	Õ	Ö	Ö	0	Õ	Ö	0	Ö
	4000 ppm	Ö	Ö	Ö	ő	ő	Ö	ŏ	Õ	ő	Ö	Ö	ŏ	Ö	Õ
OILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	n	0	0	0	0
	444 ppm	ň	Ö	Ô	0	0	0	Ö	Õ	ñ	1	1	1	1	ī
	1333 ppm	0	0	0	0	0	0	0	2	1	i	Ó	Ó	Ö	Ó
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	U	U	U	U	U	U	U	U	U	U	U	U	U	U

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

linical sign	Group Name	Admini	stration W	eek-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
EATH	Control	1	1	2	2	2	2	2	2	2	2	2	2	2	2
CAIN	444 ppm	3	3	4	4	4	4	4	4	4	4	4	4	4	4
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	1	1	1	1	1	1	1	1	1	1	1	1	1
ORIBUND SACRIFICE	Control	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	444 ppm	1	1	1	1	1	1	1	1	1	1	i	i	i	1
	1333 ppm	ò	Ö	ò	Ö	Ö	Ö	Ö	i	i	1	i	i	i	i
	4000 ppm	Õ	Ö	ő	Ö	Õ	ŏ	Ö	Ö	Ö	0	Ô	Ô	0	0
OCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sound, Six mortalities Debit	444 ppm	0	0	0	0	0	0	0	0	Ô	0	0	Õ	Ô	ñ
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	ő	Ö	Ŏ
ARALYTIC GAIT	Control	n	0	0	0	0	0	0	0	0	0	0	0	0	n
MINETTIO GATT	444 ppm	0	0	0	Ö	0	0	0	0	Ö	0	Ö	Õ	Ô	ñ
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Õ	0
DILED	Control	1	1	0	0	0	0	0	0	0	0	0	0	0	0
0.225	444 ppm	ó	Ö	Ö	Ö	Õ	Õ	ŏ	Õ	Õ	Õ	Ö	Õ	Ö	Õ
	1333 ppm	Õ	Õ	ŏ	ŏ	Õ	ŏ	ŏ	Õ	Ö	0	Ö	Ō	Ō	Õ
	4000 ppm	Ö	Õ	0	Ö	Ő	ő	0	Õ	Ö	Õ	Õ	Õ	Õ	0
OLORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ō	Õ	0	Õ	Õ	Õ	Ö	Õ	Õ	Ō	Ō	Ō	Ō	Ō
	1333 ppm	27	27	26	18	17	18	14	14	13	14	14	19	20	22
	4000 ppm	36	35	35	32	32	32	31	31	31	34	33	32	32	31
ILOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ö	Ö	Ö	Ö	Ö	Õ	Ö	Ö	Ö	Ō	Ō	Ō	0	0
	1333 ppm	Ö	Õ	Ö	Ö	Ö	Ö	Ö	Õ	Ö	Õ	Ö	Ö	Õ	0
	4000 ppm	1	Ö	0	Ö	ő	ő	Ô	Õ	Ö	Õ	Ö	0	Ō	Ō
SS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	ő	Õ	ő	Ö	Ö	ŏ	Ö	Õ	Ö	Õ	Õ	Õ	Ö	Ó
	1333 ppm	ő	0	0	0	0	0	0	0	0	0	0	Ö	Ö	ñ
	4000 ppm	0	0	0	Õ	0	Ö	0	Õ	Õ	Ô	Õ	Õ	ŏ	ő
ILED PERI-GENITALIA	Control	0	0	0	0	0	0	1	1	1	1	0	0	0	0
	444 ppm	ĭ	1	ő	Õ	0	0	ò	Ó	ò	Ö	Ô	Õ	Ö	Õ
	1333 ppm	n	0	0	0	0	0	0	0	0	0	0	1	1	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	Ó	ò	1

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

linical sign	Group Name	Admini	stration W	leek-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
EATH	Control	2	2	3	3	3	3	3	3	3	3	4	4	5	5
LATII	444 ppm	4	4	4	4	5	5	5	5	5	5	5	5	6	6
	1333 ppm	0	0	0	0	0	Õ	1	1	1	í	1	1	1	1
	4000 ppm	1	í	1	1	1	1	i	2	2	2	2	3	3	3
ORIBUND SACRIFICE	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	1	1	2	2	2	2	2	2	2	2	2	2	3	3
	1333 ppm	1	1	1	1	1	1	2	2	2	2	3	4	4	4
	4000 ppm	0	0	0	0	0	0	0	1	1	1	2	2	2	3
COMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RALYTIC GAIT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
LORED	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	20	20	19	19	17	8	7	8	9	7	7	7	7	6
	4000 ppm	30	30	30	30	32	24	24	25	25	24	24	24	24	24
LOERECTION	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	1	1	1	0	0	0	0	0	0	0
SS OF HAIR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILED PERI-GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	444 ppm	0	0	0	0	0	0	0	1	1	1	1	1	0	0
	1333 ppm	0	0	0	0	0	1	0	1	1	1	1	0	0	0
	4000 ppm	1	1	1	1	0	1	1	1	1	0	0	0	1	0

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Admini	stration	Week-dav			
	Stoup Hamo	99-7	100-7	101-7	102-7	103-7	104-7
DEATH	Control	5	5	5	5	5	5
	444 ppm	6	6	6	6	7	7
	1333 ppm	1	1	2	2	2	2
	4000 ppm	3	3	3	4	4	4
MORIBUND SACRIFICE	Control	3	4	4	4	4	5
montpone andni rac	444 ppm	3	3	3	3	3	3
	1333 ppm	. 4	4	4	4	4	5
	4000 ppm	3	3	3	3	3	3
		·	•	•	·	•	•
LOCOMOTOR MOVEMENT DECR	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
%	4000 ppm	0	0	0	0	0	0
PARALYTIC GAIT	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
SOILED	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	ő	Õ	Ö	Ö	Õ	Ŏ
	4000 ppm	Õ	Õ	ő	ő	ő	Õ
					_		
COLORED	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	5	5	7	7	7	4
	4000 ppm	24	24	24	23	23	17
PILOERECTION	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
LOSS OF HAIR	Control	0	0	0	0	0	0
2000 OF HININ	444 ppm	0	0	0	0	1	1
	1333 ppm	0	0	0	0	Ó	Ó
	4000 ppm	1	1	1	1	1	i
SOILED PERI-GENITALIA	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	1	1
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

Clinical sign	Group Name	Adminis 1-7	stration We 2-7	eek-day 3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
			<u>- </u>	· · · · · · · · · · · · · · · · · · ·	T ,	V 1	V 1					.,,,	'		
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Õ	Ö	Ö	Õ	Ō	Ö	Ō	Ō	0	0	0	0	0	0
	1333 ppm	0	0	Ō	Ō	Ō	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	Ō	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
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 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
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0.	0	0	0	0	0	0	0	0	0	0	0	0	0
HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0.	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-dav											
		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
VADUTUM MAC	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XOPHTHALMOS	Control	0 0	0 0	0	0	0 0	0 0	0 0	0 0	0 0	0 0	0	0	0	0
	444 ppm	0		0	0 0	0	0	0	0	0	0	0	0	0	0
	1333 ppm 4000 ppm	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	U	U	U	U	U	U	U	υ	U	U	U	U	U	U
ATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
WIENNE MAGO	444 ppm	0	0	0	0	0	0	0	0	Ö	Ö	Õ	Ö	Ö	'n
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ô
	4000 ppm	0	0	0	0	0	0	0	0	0	0	Ô	0	0	Ö
	4000 ppiii	U	U	U	U	U	U	U	U	U	U	U	U	Ü	v
NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	ő	Ö	ő	Ö	Ö	Ő	Ö	Ô	Ô	Ö	Õ	Ö	Ö	Ö
	1333 ppm	ŏ	0	Ö	Õ	Õ	Õ	Ö	Ô	Õ	Ö	Õ	Ŏ	Ö	Ö
	4000 ppm	0	0	0	Ô	Ö	ő	ő	0	Ô	Ö	Õ	Ô	Õ	Ö
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- I LAI LAI	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	n O
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	n O
	1333 ppm 4000 ppm	υ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 PPM	U	U	U	U	U	U	U	U	U	U	U	U	U	U
HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

STUDY NO. : 0739 ANIMAL : RAT F344/DuCr!Cr!j[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

En . I contec															
linical sign	Group Name	Admini	stration W	eek-day _											
	-A	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
OPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUTITIALMUS	444 ppm	0	0	0	0	0	0	0	0	0	0	Ö	0	Ö	Ö
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Õ	Ö
	1333 ppm 4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	n
MIMMAGI	444 ppm	0	n	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm 1333 ppm	ŭ	•	-	-	-	-	0	0	0	0	. 0	0	0	1
		0	0	0	0	0	0	0	U 1		2	2	2	2	2
	4000 ppm	0	0	0	0	0	0	U	i	1	2	۷	۷	۷	2
CTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTERNAL MASS	Control	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Õ	õ	Õ	Ö	Ö	0	Õ	Õ	ō	Õ	ō	0	0	0
	1333 ppm	0	ő	Õ	Ö	Ö	Ô	Õ	0	Õ	0	Õ	Ô	Ö	Ō
	4000 ppm	0	ñ	Ô	Õ	0	Ô	Ô	Õ	Õ	Õ	Õ	Õ	Õ	Õ
	4000 ppss	U	U	U	U	U	U	U	U	Ū	U	v	v	Ü	ū
EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I ENT LAN	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm 1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	U	U	U	U	U	U	U	U	U	U	U	U	U	U
HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name		stration W	eek-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
VADUTUM MAC	0	۰		•	•	•	•		•			٥	0	0	0
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ATARACT	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	3	3	3	3	3	3	3	3	3	4	4	4	4	4
XTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	Ō	Ō	0	0	Ō	Ô	Ō	Ō	0	0	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
THE WAY OF THE PARTY OF THE PAR	444 ppm	1	1	1	Õ	Ö	Ö	ŏ	Õ	1	1	1	1	Ô	Õ
	1333 ppm	'n	Ö	ò	Ö	Ö	Õ	Õ	0	ò	ò	ò	ò	Ô	Õ
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Noor				•			•		•	•	•	•	•	•	0
NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ō	Ö	Ö	Ŏ	Ö	Ö	Ö	Õ	Ö	Õ	Ö	Ö	Ö	0
	1333 ppm	Õ	ő	Ö	Ŏ	Õ	Ö	Ö	Õ	Õ	Ö	Õ	1	1	ĺ
	4000 ppm	Ö	Õ	Õ	ő	Ö	ő	Ō	Õ	Ö	Ō	Ō	Ö	Ô	0
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEWI FUN	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	n	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	U	U	U	U	U	U	U	U	U	U	U	U	U	U
HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

linical sign	Group Name	Admini	stration W	leek-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
XOPHTHALMOS	Control	0	0	1	0	0	0	0	0	0	0	0	0	0	0
VOLUTUATMOS	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	Ô	0	ő	Ö	0	0
ATARACT	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	4000 ppm	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TERNAL MASS	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	U	U	ı
NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

Group Name	Admini	stration W	look-dox					,						
or our mamo														
	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
Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						-			_					0
	-					-								0
4000 ppm	0	0	0	0	0	0	0	0	0	0	0	U	U	0
Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0			1	1	1	1					2
	2			2		2							2	2
4000 ppm	4	4	4	4	4	4	4	4	4	4	4	4	5	5
Control	1	1	1	2	2	2	2	2	2	3	3	3	3	3
444 ppm	0	0	0	0	1	1	1	1	3	3	3	4	4	4
1333 ppm	0	0	0	0	0	1	1	1	1	1	1	2	2	2
4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	ŏ	Õ		Õ	Õ	Õ	Õ	Õ	Ö	Ö	Ö	Ö	Ō	Ō
	ŏ	-		-		Ö	1	0	Ö	Õ	Ö	Õ	Ō	Ō
4000 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Control	0	n	0	0	0	n	0	0	0	0	0	0	0	0
	ň	-		-	-	-	-	_	_				ō	0
	-								_	-				Ō
	-								ñ	Ô	0	Ō	Õ	ō
	v	Ü	-	•	-	-	-	-	·	ŭ	•	•	·	·
	0	0			_	-			_		_	•	-	0
	•	-		-	-	-		-		-		_		Ō
	-								-	-		-		0
4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
444 ppm	0	Ō	Ō	Ō	Ō	0	Ō	0	Ō	0	0	0	0	0
1333 ppm	0	0	Ō	0	0	0	Ô	0	0	0	0	0	0	0
4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Control	Λ	n	0	n	n	0	n	n	n	Λ	n	0	0	0
			-						-					0
	-					-	-		-	-				0
4000 ppm	-													0
	444 ppm 1333 ppm 4000 ppm Control 444 ppm 1333 ppm 4000 ppm	444 ppm 0 1333 ppm 0 4000 ppm 0 Control 1 444 ppm 0 1333 ppm 2 4000 ppm 4 Control 1 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 1 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0 Control 0 444 ppm 0 1333 ppm 0 4000 ppm 0	444 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	444 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	444 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	444 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	444 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	444 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	444 ppm	444 ppm	444 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A44 ppm	Add pom	444 ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	istration V	leek-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
EXOPHTHALMOS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAUPHIHALMU3		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	-		_					0	0	0	0	0	0	0
	1333 ppm	0	0	0 0	0 0	0 0	0 0	0 0	0	0	0	0	0	0	0
	4000 ppm	0	0	U	U	U	U	U	U	U	U	U	U	U	U
ATARACT	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1333 ppm	2	2	2	2	2	2	2	2	2	2	3	3	3	3
	4000 ppm	5	5	5	5	5	5	5	4	4	4	4	4	4	3
XTERNAL MASS	Control	3	4	4	4	4	4	5	5	5	5	5	5	7	9
	444 ppm	4	4	4	4	4	4	5	5	5	5	5	5	4	5
	1333 ppm	3	3	3	3	3	3	3	4	4	4	4	5	5	5
	4000 ppm	1	1	1	1	2	2	2	2	2	2	2	1	3	3
NTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	2	2	2	2
INTERNAL MOOD	444 ppm	0	0	0	0	0	0	1	1	1	1	1	ī	Ō	Õ
	1333 ppm	0	0	1	1	1	1	ò	Ó	Ö	0	1	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	Ó	0	0	0
	4000 ppm	U	U	U	U	U	v	U	U	U	U	U	U	U	Ū
. NOSE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. EYE	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	444 ppm	Õ	ñ	Ö	Ō	Ö	Ö	Ō	ñ	Ō	Õ	Ō	Ō	0	0
	1333 ppm	Ö	Ô	ŏ	Ö	Ô	Õ	ŏ	Õ	Õ	Õ	Õ	Õ	Ö	Ō
	4000 ppm	Ô	Ô	ő	0	Ô	Õ	ŏ	0	0	Õ	Õ	Õ	Õ	Ö
		•	•	·	·	Ť				-	-	-			
. PERI-MOUTH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERI EAR	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Ô	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	Ō	Ō	Ō	Ō	0	Ō	Ō	0	Ō	0	0	0	0
	4000 ppm	Ö	Ö	Õ	Ö	Õ	Ō	Õ	Õ	Ō	Ō	0	0	1	1
HEAD	0 1	•	•	•	•	•	•			•	•	0	0	0	•
. HEAD	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0739 ANIMAL : RAT F344/DuCr|Cr|j[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration	Week-day _			
		99-7	100-7	101-7	102-7	103-7	104-7

EXOPHTHALMOS	Control	0	0	0	0	0	0
LAUFIIIIALMU3	444 ppm	0	0	1	1	1	1
	1333 ppm	0	0	0	Ó	Ó	Ó
	4000 ppm	0	0	0	0	0	0
	4000 ppm	U	U	U	U	U	U
CATARACT	Control	1	1	1	1	1	1
0717110101	444 ppm	3	3	3	3	3	4
	1333 ppm	3	3	3	3	3	3
	4000 ppm	3	3	3	3	3	4
	4000 ppm	J	J	J	J	J	4
EXTERNAL MASS	Control	7	7	7	8	8	9
	444 ppm	5	5	5	6	7	8
	1333 ppm	5	5	5	5	5	5
	4000 ppm	3	3	4	5	5	6
	ווילל סססד	v	v	7	•	·	•
INTERNAL MASS	Control	1	0	0	0	0	2
	444 ppm	ò	Ö	Ö	0	Õ	ō
	1333 ppm	1	1	0	Ô	0	0
	4000 ppm	0	Ó	0	0	0	0
	ווקק טטטד	v	v	U	Ū	Ū	v
M. NOSE	Control	0	0	0	0	0	0
	444 ppm	Õ	Ŏ	Ŏ	Ö	Õ	Ö
	1333 ppm	Ö	Õ	Õ	Ö	Õ	1
	4000 ppm	Õ	Õ	Õ	Õ	Õ	Ö
		=	-	=	=	=	=
M. EYE	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
M. PERI-MOUTH	Control	0	0	0	0	0	0
	444 ppm	1	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
M. PERI EAR	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1
M. HEAD	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	1	1
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE PAGE: 57

Clinical sign	Group Name	Admini	stration W	eek-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
NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. ALON	444 ppm	n	0	0	0	0	0	0	0	0	0	n	0	Ô	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppiii	U	U	U	U	U	U	U	U	U	U	U	U	U	v
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	Ō	Ö	Ö	Ö	Ö	Õ	Ō	Ō	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTEKTOR DOROGI	444 ppm	0	Ö	Ö	Ö	Ö	Ö	Ô	Õ	Õ	Õ	ñ	Õ	Ö	Õ
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö
	4000 ppm	0	0	0	0	0	0	0	0	0	Û	n	0	0	0
	4000 ppiii	U	U	U	U	U	U	U	U	U	U	U	U	U	U
POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENITALIA	Control	O	0	0	0	0	0	0	0	Ο	0	0	0	0	0
OLM ME IN	444 ppm	ñ	Ö	Ö	Õ	ő	Ö	Õ	0	Õ	Õ	ñ	Õ	Ô	Õ
	1333 ppm	Ô	Ö	0	Ö	Ö	0	0	Õ	0	0	Ô	Õ	Ô	ŏ
	4000 ppm	0	0	0	0	0	0	0	0	0	Õ	Ô	Ô	0	Õ
		•	v	v	v	v	Ü	U	Ü	v	v	v	•	v	•
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.CER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Õ	Ö	Ö	Ö	Õ	Ö	Ō	Ö	Ŏ	Õ	0	Ō	Ō	0
	1333 ppm	Õ	Ö	Õ	Ö	Ö	Õ	Ō	Ö	Õ	Ō	Ö	Õ	Ō	Ō
	4000 ppm	Ö	ŏ	ŏ	Ö	Õ	Ö	Õ	Õ	Ö	Ö	Ö	Ŏ	Õ	0
NICTA	0. 1. 1		^		•	•	^	•	•	^	•	•	^	•	•
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	leek-day											
		15-7	16-7	17-7	18-7	19-7	20-7	217	22-7	23-7	24-7	25-7	26-7	27-7	28-7
, NEOV		۰	•	•			•			•	0	٥	0	0	0
I. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0 0	0 0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0
	4000 ppm	0	0	U	0	0	0	0	U	0	υ	υ	U	U	U
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	Ō	0	0	Ô	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ô	Ö	Ö	Ö	Ö	Õ	Ō	Ō	0	Ō	Ō	Ō	Ō	0
	1333 ppm	ŏ	Õ	Õ	Ő	ő	ŏ	Õ	Ö	Õ	Ŏ	Ö	ŏ	Ö	Õ
	4000 ppm	Õ	Õ	Ö	Ö	0	Ŏ	0	Ö	Ö	0	0	Ō	Ō	Ō
POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOOTERTOR DOROOM	444 ppm	ŏ	Õ	Õ	0	Õ	ŏ	Ö	Ö	0	Õ	Õ	ŏ	Õ	Õ
	1333 ppm	0	0	Ö	Õ	0	Ö	Ö	Ŏ	Ô	Ö	0	ő	Õ	ő
	4000 ppm	0	0	0	0	0	0	0	0	0	0	n	0	Õ	Õ
	4000 ppiii	U	U	U	U	U	U	U	U	U	U	U	Ü	U	Ū
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	ŏ	Õ	Õ	Ö	ő	ŏ	Õ	Õ	Õ	Ö	Õ	Õ	Ö	Ö
	1333 ppm	ő	Ô	Õ	Ö	Ô	ő	Õ	Õ	0	Õ	0	ŏ	Õ	ő
	4000 ppm	0	0	0	0	0	0	0	0	0	ő	Ő	Õ	Ö	0
USTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	n
אונטוא	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		•		0			-		0		•	0	0	0	0
	1333 ppm	0	0 0		0	0	0	0 0	0	0 0	0 0	0	0	0	0
	4000 ppm	0	U	0	0	0	0	U	U	U	U	U	U	U	U

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	istration We	ek-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
. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEON	444 ppm	0	0	0	0	0	0	0	0	0	0	0	Ö	Õ	ő
	1333 ppm	0	0	0	0	0	0	0	Ö	Õ	Õ	Ô	ő	Ő	ő
	4000 ppm	0	0	0	0	0	0	Ô	Ö	ő	ő	Ö	Ö	ő	ő
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0 .	0	0	0	0	0	0	0	0	0
POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W												
		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
NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
neon.	444 ppm	ő	Õ	Ö	0	ŏ	Ô	Ŏ	Õ	Ö	Õ	Ô	Ö	Ö	Õ
	1333 ppm	0	n	0	0	0	0	Õ	0	Õ	Ö	n	0	Ö	Ď
	4000 ppm	Ö	Ô	ő	Ö	Ö	Õ	Ö	Ö	Ö	ő	ő	ő	Ō	Ö
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	.0	0	0	0	0	0	0	0	0	0	0	0	0	Ü
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENITALIA	Control	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LCER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUSTA	Control	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANIMAL : RAT F344/DuCriCrij [F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	eek-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
NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NECK	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	ñ	0	0
	4000 ppm	0	Ô	Õ	ő	Õ	ő	Ö	ő	Ô	Ö	Ö	Ö	ŏ	0
BREAST	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTERIOR. DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENITALIA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEM I A	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CER	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

REPORT TYPE : A1 104

SEX : FEMALE

JEK . JEHNEE															
Clinical sign	Group Name	Admini	stration We	ek-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
. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HLOK	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Õ	Ö
	1333 ppm	0	0	0	0	0	0	0	0	0	n	Ô	Ö	ő	Ö
	4000 ppm	Ö	Ö	0	Ö	ő	ő	Ö	Ô	Ö	ő	ő	0	Ö	Ö
BREAST	Control	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	2	2	2	2	3	3
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ABDOMEN	Control	0	0	0	1	1	1	1	1	1	2	2	2	2	2
	444 ppm	0	0	0	0	1	1	1	1	1	1	1	2	1	1
	1333 ppm	0	0	0	0	0	1	1	1	1	1	1 0	1	1	I
	4000 ppm	0	0	0	0	0	0	0	0	0	0	U	0	0	0
ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	U	0	0	0
POSTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENITALIA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMIA	Control	0	0	0	2	1	1	1	1	1	1	1	2	2	2
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_CER	Control	0	0	0	0	0	0	0	0	0	0	1	2	2	2
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Ō	Õ	Õ	Ō	Ō	Õ	Ō	Õ	0	0	Ō	0	0
	1333 ppm	0	Ō	Ō	0	0	0	Ō	0	0	0	0	0	0	0
	4000 ppm	0	0	Ō	Ō	Ō	Ō	Ō	Ō	Ō	1	1	1	1	1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admini	stration W	leek-day				·····							
		85-7	86-7	87-7	88-7	89-7	90-7	91-7	92-7	93-7	94-7	957	96-7	97-7	98-7
A NEOV	One hand	0	0	0	0	0	0	0	0	0	0	٥	0	1	,
M. NECK	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	i
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I. BREAST	Control	0	0	1	1	1	1	2	2	2	2	2	2	2	2
	444 ppm	3	3	3	3	3	3	4	4	4	4	4	4	4	4
	1333 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. ABDOMEN	Control	2	2	1	1	1	1	1	1	1	1	1	1	1	2
	444 ppm	1	1	1	i	1	1	İ	1	1	1	1	1	0	0
	1333 ppm	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	4000 ppm	i	í	i	i	í	i	1	1	ĩ	1	1	1	1	1
ANTERIOR DORSUM	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
THITENION DONOON	444 ppm	Ď	Õ	Õ	Ö	Õ	Õ	Ŏ	Õ	0	Ö	Ö	Ö	Ö	Ō
	1333 ppm	0	0	0	0	0	0	0	Ô	. 0	0	0	Ô	0	0
	4000 ppm	0	0	0	0	1	1	1	1	1	1	1	Ö	Õ	0
POSTERIOR DORSUM	Control	0	1	1	1	1	1	1	1	1	1	1	1	1	1
A TOOTERTOR BORDOM	444 ppm	ő	Ö	ò	Ö	Ô	ò	'n	Ö	Ö	Ö	ò	Ö	ò	Ö
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	Õ	Ö
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	HING DOOP	U	U	U	U	U	U	U	U	U	U	U	U	U	U
I. GENITALIA	Control	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	1	1
NEMIA	Control	2	2	1	1	1	1	1	1	1	1	1	1	1	2
	444 ppm	1	1	0	0	0	0	1	1	1	1	1	1	0	0
	1333 ppm	0	0	0	0	1	1	2	2	2	2	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	0	0	1	1	0	0	0
.CER	Control	2	2	1	1	1	1	1	1	1	1	1	1	1	1
	444 ppm	Õ	Õ	ò	Ö	Ö	Ö	Ö	Ö	Ö	Ö	ò	Ö	Ö	Ö
	1333 ppm	Ö	0	0	0	0	0	0	1	1	1	1	1	1	1
	4000 ppm	0	0	0	0	0	0	0	Ò	Ó	0	Ö	Ó	Ö	Ó
	4000 ppiii	U	Ü	U	U	U	U	U	U	U	U	U	U	v	J
RUSTA	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1	1	1	1	1	1	1	1	1

REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Admin	istration '	Week-day			
	0.00p0	99-7	100-7	101-7	102-7	103-7	104-7
						····	
M. NECK	Control	1	0	0	0	0	0
	444 ppm	ò	Ö	Ö	Õ	Õ	Ö
	1333 ppm	Ö	Õ	Õ	Õ	Õ	Ö
	4000 ppm	Ö	Ö	Ö	Ō	Ö	Ö
	1000 pp	Ū	Ū	Ū	Ū	Ū	· ·
M. BREAST	Control	1	1	1	1	1	3
	444 ppm	4	5	5	6	6	7
	1333 ppm	2	2	2	2	2	1
	4000 ppm	0	0	1	1	1	i
		-	=	•	•	•	•
M. ABDOMEN	Control	2	2	2	3	3	2
	444 ppm	0	0	0	0	0	0
	1333 ppm	2	2	2	2	2	2
	4000 ppm	1	1	1	2	2	2
M. ANTERIOR. DORSUM	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
M. POSTERIOR DORSUM	Control	1	1	1	1	1	1
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	1
M. GENITALIA	Control	2	3	3	3	3	3
	444 ppm	0	0	0	0	0	0
	1333 ppm	2	2	2	2	2	1
	4000 ppm	1	1	1	1	1	1
4117144 4	0	_	_	_			_
ANEMIA	Control	1	1	1	1	2	2
	444 ppm	0	0	0	0	0	0
	1333 ppm	1	1	1	1	1	0
	4000 ppm	0	0	1	0	0	0
ULCER	Control			1		•	
ULGER	Control	1 0	1	1	1	2	1
	444 ppm	•	0	0	0	0	0
	1333 ppm	1 0	1 0	1 0	1	1	0
	4000 ppm	U	U	U	0	0	0
CRUSTA	Control	0	0	0	0	0	0
550171	444 ppm	0	0	0	0	0	0
	1333 ppm	ő	0	0	0	0	0
	4000 ppm	1	1	1	1	1	1
	1000 ppm	•	'	•	•	•	•

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

linical sign	Group Name	Admini	stration W	eek-day											
		1-7	2-7	3-7	47	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
MORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101111111111111111111111111111111111111	444 ppm	Ô	Ô	Ö	Ö	Ö	Ô	Õ	Ö	Õ	Õ	Ô	ñ	Ō	0
	1333 ppm	0	ñ	0	Ö	Ö	0	Ő	Ŏ	Õ	ñ	ñ	Ô	Ö	0
	4000 ppm	Ô	Ö	Ö	Ö	ő	0	Ŏ	Ö	Ö	ő	Ö	0	Õ	Õ
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0
LOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	444 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1333 ppm	50	50	50	50	50	44	44	44	46	46	43	43	43	43
	4000 ppm	50	49	48	48	48	33	31	30	37	37	34	34	34	34

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

linical sign	Group Name	Admini	istration W	eek-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
MORRHAGE	Control	0	0	0	0	0	0	0	0	0	n	0	0	0	0
MORKITAGE	444 ppm	Ů	0	0	0	Ö	0	0	Ö	Õ	n	Õ	Õ	0	Õ
	1333 ppm	0	0	0	0	0	0	0	0	0	Õ	0	Õ	Ô	ñ
	4000 ppm	Ö	Ő	Õ	ő	0	Ö	ő	Ö	ő	ő	ŏ	Ö	Ö	0
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0 ,	0	0	0	0	0	0	0	0	0
D URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALL STOOL	Control	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N REMARKABLE	Control	50	50	50	50	50	50	50	50	50	50	50	50	50	49
	444 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	1333 ppm	48	48	48	48	50	50	50	50	49	49	49	49	49	49
	4000 ppm	40	40	37	34	35	35	37	37	32	32	29	29	30	30

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

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linical sign	Group Name	Admini	stration W	eek-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
MORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	49	49	49
	444 ppm	50	50	50	50	50	50	50	50	50	50	50	50	50	49
	1333 ppm	49	49	49	49	49	49	50	50	49	49	49	49	49	43
	4000 ppm	27	27	29	29	27	27	30	18	20	20	20	19	19	19

(HAN190)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104 CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE PAGE: 68

linical sign	Group Name	Admini	stration W	leek-day											
, , , , , , , , , , , , , , , , , , ,	aroup itamo	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
EMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	1	1	0	0	0	0	0	0	0	0	1	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.IGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	1	1	0	0	0	0	1	0	0	0	0	0	0
	1333 ppm	Ō	Ó	0	Ō	Ō	Ō	0	0	0	0	0	0	0	0
	4000 ppm	0	Ō	0	0	0	0	0	0	0	0	0	0	0	0
N REMARKABLE	Control	49	49	49	49	49	49	49	49	49	49	49	47	47	47
	444 ppm	48	48	48	48	48	48	49	48	47	47	48	48	48	48
	1333 ppm	43	43	42	41	40	39	40	39	39	35	35	34	34	30
	4000 ppm	20	20	20	20	21	22	21	18	18	16	16	16	16	15

(HAN190) BAIS 5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

linical sign	Group Name	Admini	stration W	leek-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
EMORRHAGE	Control	0	n	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	Õ	Õ	0	Õ	Ō	ō	Ō	Ō	ñ	Ô	Ō	Ō	Ō
	1333 ppm	n	Õ	ő	Ö	Ö	Ö	Õ	n	Ö	ñ	Ô	Ô	Ô	Õ
	4000 ppm	Ö	ő	ő	Ö	Ö	Ö	ŏ	Ö	ő	Õ	Õ	Ö	ő	Ö
REGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALL STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IGO-STOOL	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N REMARKABLE	Control	47	47	46	47	47	47	47	47	47	47	47	47	47	47
	444 ppm	48	48	48	48	48	47	47	46	46	45	45	45	44	45
	1333 ppm	30	26	26	25	25	25	24	25	25	23	22	22	21	21
	4000 ppm	14	10	11	11	11	11	11	12	12	12	12	12	12	11

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY) ALL ANIMALS

SEX : FEMALE

linical sign	Group Name	Admini	stration W	eek-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
										•				•	
EMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	U	0	U	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	1	0	0	0	0	0	0	0
REGULAR BREATHING	Control	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALL STOOL	Control	0	1	0	0	0	0	0	1	1	0	0	0	0	1
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.IGO-STOOL	Control	0	1	0	0	0	0	0	0	2	1	1	1	1	0
	444 ppm	0	0	Ö	Ō	Ō	Ō	Ō	Ö	Ō	0	0	0	0	0
	1333 ppm	Ō	Ö	Ö	Ŏ	Ö	Õ	1	Ö	Ō	0	Ō	Ō	Ō	0
	4000 ppm	ī	Ö	Ō	Õ	Ö	0	0	Õ	Ö	Ō	Ö	0	0	0
N REMARKABLE	Control	46	46	46	44	45	45	44	43	43	42	43	43	43	42
	444 ppm	45	45	45	45	44	43	43	43	41	40	40	40	40	40
	1333 ppm	22	22	23	31	32	30	33	33	34	33	33	26	25	24
	4000 ppm	12	12	12	15	15	15	16	16	16	13	14	15	15	15
	4UUU ppm	12	12	12	15	15	15	16	16	16	13	14	15	15	

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

SEX : FEMALE

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

Clinical sign	Group Name	Admini	stration W	eek-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
HEMORRHAGE	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	1
- Individual and Indi	444 ppm	Õ	Ô	ő	ŏ	Ö	Õ	Õ	Õ	Ö	Õ	ñ	Ō	'n	Ô
	1333 ppm	ņ	0	0	Ö	1	1	1	0	Ô	Õ	ñ	Ô	ñ	ő
	4000 ppm	0	0	0	0	Ó	Ó	0	0	0	0	Ö	ő	Ö	Ö
RREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	444 ppm	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	Ō	1	1	i	Ō	0	1	1	1	0	0	0
	4000 ppm	Ō	0	0	0	0	0	Ō	0	Ô	Ô	Ô	0	0	0
ED URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	1	1	1	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
'ELLOW URINE	Control	0	0	0	0	0	0	0	0	0	0	0	0	1	2
	444 ppm	1	1	0	0	0	0	0	1	1	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	4000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALL STOOL	Control	1	1	1	1	0	0	0	0	0	0	0	0	0	1
	444 ppm	1	1	0	0	0	0	0	1	1	1	1	1	0	0
	1333 ppm	0	0	0	1	1	1	0	0	1	1	1	0	0	0
	4000 ppm	0	0	0	1	1	1	1	0	0	2	1	1	1	0
LIGO-STOOL	Control	0	1	1	0	0	0	1	1	1	0	0	0	0	1
	444 ppm	1	1	0	1	0	0	0	1	1	0	0	0	0	0
	1333 ppm	0	0	0	0	0	1	0	0	1	1	1	0	0	0
	4000 ppm	0	0	0	1	1	1	1	0	0	1	0	1	1	0
ION REMARKABLE	Control	42	42	41	41	41	41	39	39	39	40	37	36	35	33
	444 ppm	39	39	39	38	38	38	37	37	37	37	37	37	36	35
	1333 ppm	25	25	25	25	26	34	34	31	30	32	31	31	31	31
	4000 ppm	16	16	16	16	15	21	21	20	20	19	19	18	17	17

(HAN190)

BAIS 5

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 104

CLINICAL OBSERVATION (SUMMARY)

ALL ANIMALS

SEX : FEMALE

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Clinical sign	Group Name	Admini	stration	Week-day			
		99-7	100-7	101-7	102-7	103-7	104-7
HEMORRHAGE	Control	1	0	0	0	0	0
TEMOTOR	444 ppm	ò	ŏ	Ö	Ö	ŏ	Ö
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	Ö	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	1	0
	4000 ppm	- 0	0	0	0	0	0
RED URINE	Control	0	0	0	0	0	0
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
YELLOW URINE	Control	0	0	0	0	0	2
	444 ppm	0	0	0	0	0	0
	1333 ppm	0	0	0	0	0	0
	4000 ppm	0	0	0	0	0	0
SMALL STOOL	Control	0	1	1	1	3	3
	444 ppm	1	2	2	1	2	2
	1333 ppm	0	1	0	1	1	1
	4000 ppm	0	0	0	0	1	2
OLIGO-STOOL	Control	0	1	1	1	2	2
	444 ppm	0	1	1	0	2	2
	1333 ppm	0	1	0	1	2	1
	4000 ppm	0	0	0	0	1	1
NON REMARKABLE	Control	33	32	32	31	30	27
	444 ppm	33	32	31	31	27	27
	1333 ppm	31	31	29	28	28	30
	4000 ppm	16	16	16	16	16	17

(HAN190)

TABLE C 1

BODY WEIGHT CHANGES AND

SURVIVAL ANIMAL NUMBERS: MALE

MEAN BODY WEIGHTS AND SURVIVAL

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

UNIT : g
REPORT TYPE : A1 104
SEX : MALE

STUDY NO. : 0739

SEX : MALE

	Control		444	ppm		1333	ppm		4000	mqc	
Week on Study	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	120 (50			100	50/50	120 (50)	100	50/50	120 (50)	100	50/50
1	152 (50			99	50/50	150 (50)	99	50/50	144 (50)	95	50/50
2	185 (50			99	50/50	181 (50)	98	50/50	172 (50)	93	50/50
3	211 (50			99	50/50	205 (50)	97	50/50	195 (50)	92	50/50
4	232 (50			99	50/50	225 (50)	97	50/50	213 (50)	92	50/50
5	249 (50			98	50/50	241 (50)	97	50/50	230 (50)	92	50/50
6	263 (50			98	50/50	252 (50)	96	50/50	242 (50)	92	50/50
7	276 (50			98	50/50	265 (50)	96	50/50	254 (50)	92	50/50
8	287 (50			99	50/50	278 (50)	97	50/50	266 (50)	93	50/50
9	297 (50			99	50/50	288 (50)	97	50/50	275 (50)	93	50/50
10	305 (50			99	50/50	296 (50)	97	50/50	283 (50)	93	50/50
11	314 (50			99	50/50	304 (50)	97	50/50	290 (50)	92	50/50
12	320 (50			99	50/50	309 (50)	97	50/50	293 (50)	92	50/50
13	327 (50			99	50/50	315 (50)	96	50/50	299 (50)	91	50/50
14	333 (50			99	50/50	320 (50)	96	50/50	305 (50)	92	50/50
18	354 (50			99	50/50	340 (50)	96	50/50	324 (50)	92	50/50
22	368 (50			99	50/50	355 (50)	96	50/50	339 (50)	92	50/50
26	377 (50			99	50/50	363 (50)	96	50/50	346 (50)	92	50/50
30	392 (50			99	50/50	378 (50)	96	50/50	360 (50)	92	50/50
34	402 (50			99	50/50	387 (50)	96	50/50	370 (50)	92	50/50
38	413 (50			99	50/50	397 (50)	96	50/50	379 (50)	92	50/50
42	421 (50			99	50/50	406 (50)	96	50/50	388 (50)	92	50/50
46	428 (50			99	50/50	413 (50)	96	50/50	394 (50)	92	50/50
50	434 (50			99	50/50	418 (50)	96	50/50	399 (50)	92	50/50
54	440 (50			100	50/50	423 (50)	96	50/50	403 (50)	92	50/50
58	445 (50			100	50/50	427 (49)	96	49/50	408 (50)	92	50/50
62	444 (50			100	50/50	426 (49)	96	49/50	411 (49)	93	49/50
66	449 (50			100	50/50	430 (49)	96	49/50	415 (49)	92	49/50
70	448 (48			100	50/50	429 (49)	96	49/50	413 (48)	92	48/50
74	450 (48			99	50/50	430 (49)	96	49/50	417 (48)	93	48/50
78	446 (48			99	47/50	424 (49)	95	49/50	414 (47)	93	47/50
82	447 (48			98	46/50	429 (46)	96	46/50	415 (47)	93	47/50
86	444 (48			99	45/50	430 (45)	97	45/50	411 (47)	93	47/50
90	439 (48			99	45/50	427 (43)	97	43/50	407 (46)	93	46/50
94	430 (48			101	42/50	419 (43)	97	43/50	402 (46)	93	46/50
98	419 (43			102	39/50	408 (39)	97	39/50	397 (44)	95	44/50
102	413 (39			100	39/50	398 (36)	96	36/50	385 (43)	93	43/50
104	407 (39) 39/50	412 (36)	101	36/50	388 (36)	95	36/50	381 (41)	94	41/50

TABLE C 2

BODY WEIGHT CHANGES AND

SURVIVAL ANIMAL NUMBERS: FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

STUDY NO. : 0739

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

	Control		444 ppm				***************************************	1333	ppm		400) ppm		
Week	Av. Wt.		No. of urviv.	Av. Wi	t.	% of	No. of Surviv.	Av. Wi	t.	% of	No. of Surviv.	Av. Wt.	% of	No. of Surviv.
on Study		\5(cont. <50>	Surviv.			cont. <50>	Surviv.		cont. <50>	ontain.
0	97 (50	0)	50/50	97	(50)	100	50/50	97	(50)	100	50/50	97 (50)	100	50/50
1	114 (50		50/50		(50)	98	50/50		(50)	98	50/50	109 (50)		50/50
2	127 (50		50/50	126	(50)	99	50/50	124	(50)	98	50/50	120 (50)	94	50/50
3	137 (50		50/50		(50)	99	50/50		(50)	96	50/50	127 (50)	93	50/50
4	145 (50		50/50	143	(50)	99	50/50	139	(50)	96	50/50	134 (50)	92	50/50
5	154 (50	0)	50/50	150	(50)	97	50/50	145	(50)	94	50/50	139 (50)	90	50/50
6	158 (50	0)	50/50	154	(50)	97	50/50	148	(50)	94	50/50	142 (50)	90	50/50
7	161 (50	0)	50/50	158	(50)	98	50/50		(50)	95	50/50	146 (50)	91	50/50
8	164 (50	0)	50/50	160	(50)	98	50/50	154	(50)	94	50/50	148 (50)	90	50/50
9	167 (50	0)	50/50	162	(50)	97	50/50	157	(50)	94	50/50	151 (50)	90	50/50
10	171 (50	0)	50/50	166	(50)	97	50/50	161	(50)	94	50/50	153 (50)	89	50/50
11	174 (50	0)	50/50	169	(50)	97	50/50	164	(50)	94	50/50	156 (50)	90	50/50
12	176 (50	0)	50/50	171	(50)	97	50/50	165	(50)	94	50/50	158 (50)	90	50/50
13	179 (50	0)	50/50	173	(50)	97	50/50	168	(50)	94	50/50	161 (50)	90	50/50
14	180 (50		50/50	175	(50)	97	50/50	169	(50)	94	50/50	162 (50)	90	50/50
18	188 (50	0)	50/50	182	(50)	97	50/50	175		93	50/50	166 (50)	88	50/50
22	194 (50	0)	50/50	190	(50)	98	50/50	180	(50)	93	50/50	171 (50)	88	50/50
26	196 (50	0)	50/50	192	(50)	98	50/50	183	(50)	93	50/50	173 (50)	88	50/50
30	202 (50	0)	50/50	198	(50)	98	50/50	188	(50)	93	50/50	178 (50)	88	50/50
34	208 (49		49/50	205	(50)	99	50/50	193	(50)	93	50/50	181 (50)	87	50/50
38	214 (49	9)	49/50	211	(50)	99	50/50	198	(50)	93	50/50	185 (50)		50/50
42	220 (49		49/50	217		99	50/50		(50)	92	50/50	188 (50)	85	50/50
46	225 (49	9)	49/50	219	(49)	97	49/50	205	(50)	91	50/50	190 (50)		50/50
50	231 (49		49/50	226		98	49/50		(50)	91	50/50	193 (50)		50/50
54	238 (49	9)	49/50	231	(49)	97	49/50		(50)	90	50/50	195 (50)	82	50/50
58	245 (49	9)	49/50	240	(48)	98	48/50	220	(50)	90	50/50	200 (50)	82	50/50
62	249 (49	9)	49/50	241	(48)	97	48/50		(50)	89	50/50	201 (50)	81	50/50
66	258 (49	9)	49/50	250		97	46/50		(50)	88	50/50	207 (50)	80	50/50
70	265 (49		49/50	258		97	46/50		(50)	88	50/50	212 (50)		50/50
74	275 (48		48/50	268		97	45/50		(50)	89	50/50	220 (49)	80	49/50
78	276 (48		48/50	271		98	45/50		(49)	89	49/50	223 (49)	81	49/50
82	285 (47		47/50	281		99	45/50		(49)	89	49/50	231 (49)	81	49/50
86	291 (47		47/50	286		98	45/50		(49)	90	49/50	235 (49)	81	49/50
90	299 (46		46/50	297		99	43/50		(49)	88	49/50	240 (49)		49/50
94	303 (46		46/50	300		99	43/50		(47)	89	47/50	242 (47)	80	47/50
98	303 (44		44/50	304		100	41/50		(45)	90	45/50	244 (44)	81	44/50
102	300 (41		41/50	300		100	41/50		(44)	90	44/50	244 (43)		43/50
104	294 (40			299		102	40/50		(43)	93	43/50	241 (43)	82	43/50
						-1- / \.								

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

TABLE C 3

BODY WEIGHT CHANGES: MALE

Significant difference ; $*: P \leq 0.05$

** : P ≤ 0.01

UNIT : g REPORT TYPE : A1 104

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

SEX : MALE														PAGE: 1
Group Name	Admini O	stration	week1		2		3		4		5		6	
Control	120±	4	152±	6	185±	7	211±	8	$232\pm$	9	249±	10	263±	12
444 ppm	120±	4	151±	6	184±	8	209±	8	229±	10	245±	11	$258\pm$	12
1333 ppm	120±	4	150±	6	181±	8*	205±	8**	225±	9**	241 ±	9**	252±	10**
4000 ppm	120±	4	144±	5**	172±	8**	195± 1	0**	213±	10**	230±	11**	242±	12**

(HAN260)

Test of Dunnett

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

UNIT : g REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 2

Group Name	Admin	istration w	eek											
	7		8		9		10		11		12		13	
W														
Control	$276\pm$	13	$287\pm$	14	$297\pm$	14	305±	15	314±	15	$320\pm$	16	$327\pm$	16
	074		204.				•••			47	010	47	204	4.7
444 ppm	271 ±	14	284±	15	294±	16	303±	16	311±	17	318±	17	324±	17
1333 ppm	$265\pm$	10**	$278\pm$	11**	$288\pm$	12**	296±	12**	$304\pm$	12**	309±	12**	$315\pm$	13**
4000	054	10	000 1	4.4	075 .	45	000	45	000 /	45	000.	10	200 1	1044
4000 ppm	254±	13**	266±	14**	275±	15**	283±	15**	290±	15**	293±	16**	$299\pm$	10**

Significant difference; $*: P \leq 0.05$

** : P ≤ 0.01

Test of Dunnett

(HAN260)

UNIT : g REPORT TYPE : A1 104 SEX : MALE

BODY WEIGHT CHANGES ALL ANIMALS (SUMMARY)

PAGE: 3

Group Name	Admini	istration	week											
	14		18		22		26		30		34		38	
Control	$333\pm$	17	$354\pm$	19	$368\pm$	19	377 ±	20	$392\pm$	20	402 \pm	21	413±	22
444 ppm	$330\pm$	17	$350\pm$	18	$363\pm$	19	372±	19	387±	19	$399\pm$	20	410±	21
1333 ppm	320±	13**	$340\pm$	15**	355±	17**	363±	15**	378±	16**	387±	17**	397 ±	18**
			****		-		-				•••		***	
mqq 000	$305\pm$	16**	$324\pm$	15**	$339\pm$	17**	$346\pm$	18**	$360\pm$	18**	$370\pm$	19**	379±	21**
Significant difference	:;). 05	** : P ≤ 0. ()1			Test of Du	ınnett						

(HAN260)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

UNIT : g REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES

ALL ANIMALS

(SUMMARY)

Group Name Administration week_ 50 54 58 62 66 42 46

421 ± 23 449 ± 23 Control 428 ± 23 434 ± 24 445± 23 444 ± 24 440± 24 444 ppm 417 ± 22 431 ± 22 443 ± 23 442 ± 24 447 ± 24 424 ± 21 438 ± 22 1333 ppm 406 ± 18** 413± 18** 418 ± 18** 423 ± 17** 427± 17** 426± 18** 430± 19** 4000 ppm 388 ± 21** 399 ± 23** 403 ± 23** 408± 25** 411 ± 23** 415± 23** 394± 21**

Significant difference; $*: P \leq 0.05$

** : P ≤ 0.01

Test of Dunnett

(HAN260)

BAIS 5

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

UNIT : g REPORT TYPE : A1 104

SEX : MALE

BODY WEIGHT CHANGES

ALL ANIMALS

PAGE: 5

Group Name	Admin	istration	week									***************************************	
	70	Mino	74	78		82		86		90		94	
Control	448 ±	24	450± 24	446 ±	26	447± 2	27	444±	29	439±	32	430±	46
144 ppm	447 ±	24	447± 26	440 ±	33	440± 3	35	438±	40	436±	46	433±	39
333 ppm	429±	20**	430± 25*	424±	31**	429± 2	27**	430±	20*	427 ±	21	419±	22
4000 ppm	413±	23**	417± 24*	414±	23**	415± 2	24**	411±	24**	407±	25**	402 ±	26**

Significant differe	nce;	0. 05 ;	** : P ≤ 0.01			Test of Dunr	nett						
(HAN260)													······

(SUMMARY)

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

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

UNIT : g REPORT TYPE : A1 104

BODY WEIGHT CHANGES

ALL ANIMALS

(SUMMARY)

			PAGE :
Administration 98	week102	104	
419± 41	413± 38	407 ± 36	
426 ± 41	411 ± 47	412 ± 35	
408 ± 28	398 ± 30	388± 37*	
397 ± 26**	385± 29**	381 ± 31**	
	98 419± 41 426± 41 408± 28	419 ± 41 413 ± 38 426 ± 41 411 ± 47 408 ± 28 398 ± 30	98 102 104 419 ± 41 413 ± 38 407 ± 36 426 ± 41 411 ± 47 412 ± 35 408 ± 28 398 ± 30 388 ± 37*

Test of Dunnett

(HAN260)

TABLE C 4

BODY WEIGHT CHANGES: FEMALE

UNIT : g REPORT TYPE : A1 104 SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS

Group Name	Admini	stration	week											
	0		1		2		3		4		5		6	
Control	97 ±	3	114±	3	127±	4	137±	4	145±	6	154±	6	158±	7
144 ppm	97 ±	3	112±	3	126±	4	135±	5	143±	6*	150±	6*	154±	7**
333 ppm	97 ±	3	112±	4**	124±	5**	132±	5**	139±	6**	145±	7**	148 ±	7**
000 mag 000	97 ±	3	109±	4**	120±	5**	127±	5**	134±	5**	139±	5**	142±	5**

(SUMMARY)

Significant difference ; $*: P \leq 0.05$

** : P ≦ 0.01

Test of Dunnett

(HAN260)

BAIS 5

PAGE: 7

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

UNIT : g

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

REPORT TYPE : A1 104

SEX : FEMALE

PAGE: 8

Group Name	Admin	stration	week									******		
	7	www.	8	·	9		10		11	······	12		13	
Control	161±	7	164 ±	7	167±	8	171±	8	174±	9	176±	9	179±	9
44 ppm	158±	7	160±	8*	162±	8*	166±	9#	169±	10**	171±	10**	173±	10*
333 ppm	153±	8**	154±	9**	157±	9**	161±	9**	164±	10**	165±	10**	168±	10**
000 ppm	146 ±	5**	148±	6**	151 ±	6**	153±	6**	156±	6**	158±	6**	161 ±	6**
Significant differen	ce;). 05	** : P ≦ 0.01				Test of Dur	nett						

(HAN260)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

UNIT : g REPORT TYPE : A1 104 BODY WEIGHT CHANGES

ALL ANIMALS

(SUMMARY)

SEX : FEMALE

Administration week_ Group Name 22 26 30 38 34 14 18 Control 180 ± 10 188 ± 10 194± 12 196± 11 202 ± 12 208 ± 13 214± 15 444 ppm 175± 11* 182 ± 11* 190± 13 192± 13 198± 14 205 ± 16 211 ± 16 1333 ppm 198± 15** 169± 10** 175± 11** 180± 11** 183± 11** 188± 12** 193 ± 14** 4000 ppm 162± 6** 7** 171 ± 7** 173± 7** $178\pm$ 8** 181± 8** 185± 9** $166 \pm$

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

(HAN260)

BAIS 5

PAGE: 9

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

UNIT : g REPORT TYPE : A1 104

SEX : FEMALE

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

Administration week													
42		46		50		54		58		62		66	
220±	16	225±	17	231 ±	19	238±	21	245±	23	249±	24	258±	26
217±	19	219±	19	226±	22	231 ±	22	240±	24	241 ±	24	250±	25
202±	16**	$205\pm$	17**	210±	19**	214±	19**	220±	22**	222±	22**	227±	24**
188±	10**	190±	10**	193±	11**	195±	11**	$200\pm$	13**	201 ±	14**	207±	17**
	220± 217± 202±	220± 16 217± 19 202± 16**	220± 16 225± 217± 19 219± 202± 16** 205±	220± 16 225± 17 217± 19 219± 19 202± 16** 205± 17**	220± 16 225± 17 231± 217± 19 219± 19 226± 202± 16** 205± 17** 210±	220± 16 225± 17 231± 19 217± 19 219± 19 226± 22 202± 16** 205± 17** 210± 19**	220± 16 225± 17 231± 19 238± 217± 19 219± 19 226± 22 231± 202± 16** 205± 17** 210± 19** 214±	220± 16 225± 17 231± 19 238± 21 217± 19 219± 19 226± 22 231± 22 202± 16** 205± 17** 210± 19** 214± 19**	220± 16 225± 17 231± 19 238± 21 245± 217± 19 219± 19 226± 22 231± 22 240± 202± 16** 205± 17** 210± 19** 214± 19** 220±	220± 16 225± 17 231± 19 238± 21 245± 23 217± 19 219± 19 226± 22 231± 22 240± 24 202± 16** 205± 17** 210± 19*** 214± 19*** 220± 22**	220± 16 225± 17 231± 19 238± 21 245± 23 249± 217± 19 219± 19 226± 22 231± 22 240± 24 241± 202± 16** 205± 17** 210± 19** 214± 19** 220± 22** 222±	220± 16 225± 17 231± 19 238± 21 245± 23 249± 24 217± 19 219± 19 226± 22 231± 22 240± 24 241± 24 202± 16** 205± 17** 210± 19** 214± 19** 220± 22** 222± 22**	220± 16 225± 17 231± 19 238± 21 245± 23 249± 24 258± 217± 19 219± 19 226± 22 231± 22 240± 24 241± 24 250± 202± 16** 205± 17** 210± 19** 214± 19** 220± 22** 22± 22±* 227±

(HAN260)

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

Test of Dunnett

BAIS 5

PAGE: 10

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

265 ± 27

UNIT : g REPORT TYPE : A1 104

SEX : FEMALE

Control

BODY WEIGHT CHANGES

276 ± 27

ALL ANIMALS

(SUMMARY)

285 ± 28

291 ± 28

299 ± 28

PAGE: 11

303 ± 27

444 ppm 258± 27 268± 27 271± 26 281± 26 286± 31 297± 26 300± 31

1333 ppm 234± 25** 244± 26** 246± 25** 255± 26** 261± 27** 263± 30** 270± 28**

4000 ppm 212± 19** 220± 20** 223± 20** 231± 22** 235± 23** 240± 23** 242± 24**

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

275 ± 27

(HAN260) BAIS 5

UNIT : g REPORT TYPE : A1 104

BODY WEIGHT CHANGES ALL ANIMALS

(SUMMARY)

SEX : FEMALE

PAGE: 12

Group Name	Administration	week		
	98	102	104	
Control	303± 28	300± 27	294± 33	
444 ppm	304± 28	300± 33	299± 36	
1333 ppm	273± 30**	271 ± 35**	272 ± 40**	
4000 ppm	244± 23**	244± 21**	241 ± 23**	
Significant difference	; * : P ≤ 0.05	** : P ≤ 0.01	Test of Du	unnett

(HAN260)

TABLE D 1

FOOD CONSUMPTION CHANGES AND

SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0739 MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

UNIT : g
REPORT TYPE : A1 104
SEX : MALE

SEX : MALE

No. of
2 14,3 (50) 50/50 14,8 (50) 99 50/50 14,0 (50) 98 50/50 12,9 (50) 90 50/50 4 15.0 (50) 50/50 14,9 (50) 99 50/50 14,7 (50) 98 50/50 14,0 (50) 99 50/50 14,0 (50) 98 50/50 14,1 (50) 99 50/50 14,0 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 14,1 (50) 98 50/50 18,1 (50) 50/50 14,9 (50) 99 50/50 14,8 (50) 99 50/50
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90 15. 7 (47) 48/50 15. 7 (43) 100 45/50 15. 7 (40) 100 43/50 15. 0 (45) 96 46/50
94 15. 9 (46) 48/50 15. 7 (40) 99 42/50 15. 5 (40) 97 43/50 15. 1 (44) 95 46/50
98 15.4 (43) 43/50 15.5 (38) 101 39/50 15.0 (36) 97 39/50 14.8 (42) 96 44/50
102 15.3 (39) 39/50 15.3 (39) 100 39/50 14.7 (33) 96 36/50 14.6 (41) 95 43/50
104 15. 4 (39) 39/50 15. 5 (36) 101 36/50 14. 3 (35) 93 36/50 14. 8 (40) 96 41/50
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PAGE: 1

TABLE D 2

FOOD CONSUMPTION CHANGES AND

SURVIVAL ANIMAL NUMBERS: FEMALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

: FEMALE PAGE : 2

	Control		4.	14 ppm		1333	ppm		4000	ppm	
Week on Study	Av. FC.	No. of Surviv. <50>	Av. FC.	% o cont. <50>		Av. FC.	% of cont. <50>	No. of Surviv.	Av. FC.	% of cont. <50>	No. of Surviv.
1	10. 2 (50		10.0 (9. 8 (50)	96	50/50	8. 9 (50)	87	50/50
2	10.4 (50		10. 2 (50/50	10. 1 (50)	97	50/50	9. 6 (50)	92	50/50
3	10.5 (50		10.2 (50/50	10.0 (50)	95	50/50	9. 4 (50)	90	50/50
4 5	10.6 (50 10.6 (50		10.1 (4 10.1 (9		50/50 50/50	10. 0 (49) 10. 1 (50)	94	50/50 50/50	9. 5 (50) 9. 3 (50)	90	50/50 50/50
6	10. 0 (50		9.8 (50/50 50/50	9. 7 (50)	95 95	50/50 50/50	9. 2 (50)	88 90	50/50
7	9. 9 (50		9.6 (50/50	9. 6 (49)	97	50/50	9. 1 (49)	92	50/50
8	9. 7 (50		9. 2 (50/50	9. 3 (50)	96	50/50	8. 9 (50)	92	50/50
9	9. 8 (50		9. 4 (50/50	9. 6 (50)	98	50/50	9. 1 (50)	93	50/50
10	9. 9 (50		9. 3 (50/50	9. 5 (50)	96	50/50	8. 9 (50)	90	50/50
11	9. 9 (50		9. 5 (50/50	9. 5 (50)	96	50/50	9. 1 (50)	92	50/50
12	9. 7 (50	50/50	9. 3 (50/50	9. 5 (50)	98	50/50	9. 2 (50)	95	50/50
13	9. 7 (50	50/50	9.4 (50) 97	50/50	9. 5 (50)	98	50/50	9. 2 (50)	95	50/50
14	9.6 (50		9.4 (50/50	9. 4 (50)	98	50/50	9. 0 (50)	94	50/50
18	9. 7 (50		9.4 (4		50/50	9. 3 (50)	96	50/50	8. 9 (50)	92	50/50
22	9.9 (50		9.6 (50/50	9. 4 (50)	95	50/50	9. 0 (50)	91	50/50
26	9. 9 (50		9.6 (50/50	9. 5 (50)	96	50/50	9. 2 (50)	93	50/50
30	10. 2 (50		10.1 (50/50	9. 5 (50)	93	50/50	9. 2 (50)	90	50/50
34	10. 5 (49		10.4 (50/50	10. 1 (50)	96	50/50	9. 4 (50)	90	50/50
38	10.5 (49		10.4 (50/50	10. 3 (50)	98	50/50	9. 6 (50)	91	50/50
42 46	10.8 (49		10.6 (50/50	10. 3 (50)	95 05	50/50	9. 9 (50)	92	50/50
46 50	11. 0 (49 10. 7 (49		10.6 (4 10.9 (4		49/50 49/50	10. 4 (50) 10. 7 (50)	95 100	50/50 50/50	9. 9 (50) 10. 0 (50)	90 93	50/50 50/50
54	11. 7 (46		11. 1 (4		49/50	11. 0 (50)	94	50/50	10. 4 (49)	89	50/50 50/50
58	11. 5 (49		11.6 (4		48/50	11. 4 (50)	99	50/50	10. 7 (50)	93	50/50
62	11. 3 (49		11. 2 (4		48/50	11. 3 (50)	100	50/50	10. 5 (50)	93	50/50
66	12. 0 (48		12.1 (4		46/50	11. 7 (50)	98	50/50	11. 1 (49)	93	50/50
70	12.0 (49		12.1 (4		46/50	11. 9 (50)	99	50/50	11. 2 (50)	93	50/50
74	12. 4 (45		12.5 (4		45/50	12. 2 (49)	98	50/50	11. 7 (48)	94	49/50
78	12. 1 (48		12. 2 (4		45/50	11.8 (49)	98	49/50	11. 4 (49)	94	49/50
82	12. 7 (45	47/50	13.0 (4	14) 102	45/50	12. 7 (48)	100	49/50	11. 9 (48)	94	49/50
86	12. 4 (47	47/50	12.3 (4	15) 99	45/50	12. 4 (49)	100	49/50	11.9 (49)	96	49/50
90	12. 7 (46		13.0 (4		43/50	12. 2 (48)	96	49/50	12. 2 (49)	96	49/50
94	13.0 (44		13.0 (4		43/50	12. 7 (47)	98	47/50	12. 0 (45)	92	47/50
98	12. 4 (42		12.5 (41/50	12. 8 (43)	103	45/50	12. 1 (41)	98	44/50
102	12. 4 (37		12.8 (3		41/50	12. 6 (43)	102	44/50	12. 2 (42)	98	43/50
104	12. 3 (40	40/50	12.9 (4	10) 105	40/50	12. 8 (43)	104	43/50	11. 9 (43)	97	43/50

TABLE D 3

FOOD CONSUMPTION CHANGES: MALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104

SEX : MALE

PAGE: 1

Group Name	Administration	week					
	1	2	3	4	5	6	7
Control	13. 2± 0. 5	14. 3 ± 0. 6	15.0± 0.6	15. 0± 0. 6	15. 2 ± 0. 7	15. 0 ± 0. 7	15. 0± 0. 8
444 ppm	13.1± 0.6	14. 3± 0. 7	14.8± 0.8	14.9± 0.8	14. 9± 0. 8	14.7± 0.8	14.9± 1.0
1333 ppm	12.8± 0.6**	14. 0± 0. 7*	14.5± 0.8**	14.8± 0.7	14. 9± 0. 7	14.7± 0.6	14.6± 0.7*
4000 ppm	11. 4± 0. 5**	12.9± 0.8**	13.5± 0.8**	13.8± 0.8**	14.1± 0.8**	14. 1 ± 0. 8**	14. 0± 0. 9**
Significant differenc	e; + : P ≤ 0.05	:* : P ≦ 0.01		Test of Dunnett			

(HAN260)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

SEX : MALE

PAGE: 2

Group Name	Administration	week					
	8	9	10	11	12	13	14
Control	15. 0 ± 0. 8	15. 1 ± 0. 8	15.1± 0.8	15. 0± 0. 8	15. 0± 0. 8	15. 1 ± 0. 8	14.5± 0.8
Outro	70.02 0.0	10.1 0.0	10.12. 0.0	10.02 0.0	10.02 0.0	70. 7 0. 0	17.0= 0.0
444 ppm	14.8± 1.0	14.9± 0.9	14.8± 0.8	14.8± 0.9	14.8± 0.8	14. 7± 0. 8	14.5± 0.8
1333 ррт	14.8± 0.7	15.0± 0.8	14.8± 0.8	14.8± 0.7	14.8± 0.8	14.8± 0.7	14.5± 0.8
4000 ppm	14.1± 1.0**	14. 1 ± 0. 8**	14.0± 0.9**	14. 0± 0. 8**	14. 1 ± 0. 8**	14. 0 ± 0. 8**	13. 7± 0. 7 * *
Significant difference ;	* : P ≤ 0.05 *	* : P ≤ 0.01		Test of Dunnett			

(HAN260)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

Froup Name	Administration	week					
	18	22	26	30	34	38	42
ontrol	14.8± 0.9	14. 9± 0. 8	15. 4± 0. 7	15. 4± 1. 0	15.5± 1.0	15. 5 ± 0. 9	15. 5± 0. 8
14 ppm	14. 5 ± 0. 8	14. 5± 0. 8*	15. 1 ± 0. 8	15.1± 0.9	15. 3± 0. 9	15. 3± 1. 1	15.7± 1.0
333 ppm	14.5± 0.9	14.7± 0.9	15. 1 ± 0. 8	15. 1 ± 0. 9	15. 2± 0. 8	15. 3 ± 0. 9	15.5± 0.9
1000 ppm	13.8± 0.7**	14.2± 0.8**	14.7± 0.9**	14.4± 1.0**	14.7± 0.8**	14.7± 0.9**	15. 0± 0. 9*
Significant difference ;	* : P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			

(HAN260)

BAIS 5

PAGE: 3

ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] UNIT : g REPORT TYPE : A1 104

SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 4

Group Name	Administration	week					
	46	50	54	58	62	66	70
Control	15.5± 0.8	15.2± 0.8	15. 7 ± 0.7	15. 4± 0. 6	15. 3± 0. 9	15. 7± 1. 3	15.7± 0.8
444 ppm	15.5± 1.1	15.3± 0.9	15.7± 0.9	15.5± 1.1	15.5± 1.0	15.9± 1.0	15.7± 1.0
1333 ppm	15.5± 0.9	15. 1 ± 0. 8	15. 4± 1. 2	15. 4± 0. 8	15. 4± 0. 9	15.8± 0.7	15. 4± 0. 7
4000 ppm	15. 0 ± 0. 8*	14.6± 0.9**	14.9± 0.9**	14.8± 1.2**	15. 0± 0. 9	15.1± 0.9 * *	15. 0± 0. 8**
Significant difference ;	* : P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			

(HAN260)

UNIT : g REPORT TYPE : A1 104 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 5

Group Name	Administration	week					
	74	78	82	86	90	94	98
Control	15.8± 1.0	15.8± 1.4	16.2± 1.0	15.5± 1.3	15. 7± 0. 9	15. 9± 2. 6	15. 4± 1. 8
144 ppm	15.8± 1.1	15.6± 1.6	15.9± 1.0	15.5± 1.4	15. 7± 1. 3	15.7± 1.8	15.5± 1.1
333 ppm	15.7± 0.6	15. 2± 1. 8	15.9± 1.1	15.6± 1.0	15. 7± 1. 1	15.5± 1.2*	15.0± 1.6
4000 ppm	15. 5 ± 0. 9	15.3± 1.1**	15.5± 0.9**	14.8± 0.9**	15. 0± 1. 1*	15.1± 1.2**	14.8± 1.1**
Significant diffe	rence; * : P ≤ 0.05	** : P ≦ 0. 01		Test of Dunnett		APUVIII.	

(HAN260)

UNIT : g REPORT TYPE : A1 104

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

EX : MALE				PAGE: 6
roup Name	Administration 102	week104		
ontrol	15. 3 ± 1. 3	15.4± 1.4		
44 ppm	15. 3 ± 2. 1	15.5± 1.6		
333 ppm	14.7± 1.7	14. 3± 3. 0		
000 pm	14.6± 1.2*	14.8± 1.5		
Significant differen	ce ;	** : P ≤ 0.01	Test of Dunnett	

(HAN260)

TABLE D 4

FOOD CONSUMPTION CHANGES: FEMALE

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

UNIT : g REPORT TYPE : A1 104

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

SEX : FEMALE

PAGE: 7

Group Name	Administratio	n week					
	1	2	3	4	5	6	7
		······································	***************************************	,			
ontrol	10. 2 ± 0.4	10.4± 0.4	10.5± 0.5	10.6± 0.5	10.6± 0.6	10.2± 0.5	9. 9± 0. 6
144 ppm	10.0± 0.4**	10.2± 0.5	10.2± 0.6*	10.1± 0.7**	10.1± 0.7**	9.8± 0.7**	9.6± 0.7 *
333 ppm	9.8± 0.4**	10.1± 0.6**	10.0± 0.6**	10.0± 0.7**	10.1± 0.8**	9.7± 0.8**	9. 6± 0. 7 *
mqq 0001	8.9± 0.6**	9.6± 0.6**	9. 4± 0. 6**	9. 5± 0. 7**	9. 3± 0. 4**	9. 2± 0. 5 * *	9. 1 ± 0. 5**
Significant difference ;	* : P ≤ 0.05	** : P ≤ 0.01		Test of Dunnett			
(HAN260)			,,,				BA

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 104

SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

PAGE: 8

Group Name	Administration	week					
	8	9	10	11	12	13	14
Control	9.7± 0.6	9.8± 0.5	9. 9 ± 0. 6	9. 9 ± 0. 6	9. 7± 0. 6	9.7± 0.7	9. 6± 0. 6
444 ppm	9. 2 ± 0. 7**	9. 4± 0. 8 * *	9. 3± 0. 8 * *	9.5± 0.8**	9. 3± 0. 8 * *	9. 4± 0. 8 *	9. 4± 0. 8*
1333 ppm	9. 3 ± 0. 7*	9. 6± 0. 7	9.5± 0.7**	9.5± 0.8 *	9.5± 0.7	9.5± 0.7	9.4± 0.7
4000 ppm	8. 9 ± 0. 5 * *	9. 1 ± 0. 7**	8.9± 0.6**	9. 1 ± 0. 5**	9. 2 ± 0. 6**	9. 2 ± 0. 7**	9. 0± 0. 5**

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

Test of Dunnett

(HAN260)

UNIT : g REPORT TYPE : A1 104

FOOD CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

SEX : FEMALE

PAGE: 9

Control 9.7± 0.6 9.9± 0.8 9.9± 0.8 10.2± 1.1 10.5± 0.9 10.5± 1.0 10.8± 1.1 444 ppm 9.4± 0.8* 9.6± 0.9* 9.6± 0.8 10.1± 1.3 10.4± 1.0 10.4± 1.1 10.6± 1.1 1333 ppm 9.3± 0.7* 9.4± 0.7** 9.5± 0.6 9.5± 0.7** 10.1± 0.8 10.3± 0.9 10.3± 0.9 4000 ppm 8.9± 0.6** 9.0± 0.5** 9.2± 0.5** 9.2± 0.7** 9.4± 0.7** 9.6± 0.7** 9.6± 0.7** 9.9± 0.7** Significant difference : $*: P \le 0.05$ ** : $P \le 0.01$ Test of Dunnett	Group Name	Administration	week					
9. 4± 0. 8* 9. 6± 0. 9* 9. 6± 0. 8 10. 1± 1. 3 10. 4± 1. 0 10. 4± 1. 1 10. 6± 1. 1 333 ppm 9. 3± 0. 7* 9. 4± 0. 7** 9. 5± 0. 6 9. 5± 0. 7** 10. 1± 0. 8 10. 3± 0. 9 10. 3± 0. 9 8. 9± 0. 6** 9. 0± 0. 5** 9. 2± 0. 5** 9. 2± 0. 7** 9. 4± 0. 7** 9. 6± 0. 7** 9. 9± 0. 7**		18	22	26	30	34	38	42
333 ppm 9. 3± 0. 7* 9. 4± 0. 7** 9. 5± 0. 6 9. 5± 0. 7** 10. 1± 0. 8 10. 3± 0. 9 10. 3± 0. 9 8. 9± 0. 6** 9. 0± 0. 5** 9. 2± 0. 5** 9. 2± 0. 7** 9. 4± 0. 7** 9. 6± 0. 7** 9. 9± 0. 7**	ontrol	9.7± 0.6	9.9± 0.8	9. 9 ± 0. 8	10.2± 1.1	10. 5± 0. 9	10.5± 1.0	10.8± 1.1
1000 ppm 8.9± 0.6** 9.0± 0.5** 9.2± 0.5** 9.2± 0.7** 9.4± 0.7** 9.6± 0.7** 9.9± 0.7**	144 ppm	9. 4± 0. 8*	9.6± 0.9*	9.6± 0.8	10.1± 1.3	10.4± 1.0	10. 4± 1. 1	10.6± 1.1
	1333 ppm	9. 3± 0. 7 *	9.4± 0.7**	9.5± 0.6	9.5± 0.7**	10.1± 0.8	10. 3 ± 0. 9	10.3± 0.9
Significant difference; *: P ≤ 0.05 **: P ≤ 0.01 Test of Dunnett	4000 ppm	8.9± 0.6**	9.0± 0.5**	9. 2 ± 0. 5**	9. 2 ± 0. 7**	9. 4± 0. 7 * *	9.6± 0.7**	9. 9 ± 0. 7**
Significant difference ; $*: P \leq 0.05$ **: $P \leq 0.01$ Test of Dunnett								
	Significant difference	e ; * : P ≦ 0.05 *	* : P ≦ 0. 01		Test of Dunnett			

(HAN260)

UNIT : g REPORT TYPE : A1 104

SEX : FEMALE

Group Name	Administration	week					
	46	50	54	58	62	66	70
Control	11.0± 1.3	10.7± 0.8	11.7± 1.4	11.5± 1.2	11. 3± 1. 2	12. 0± 1. 1	12. 0± 1. 0
144 ppm	10.6± 1.0	10.9± 1.4	11. 1 ± 1. 2	11.6± 1.2	11.2± 1.6	12.1± 1.3	12.1± 1.3
1333 ppm	10.4± 1.0*	10.7± 1.0	11.0± 1.0*	11. 4± 1. 2	11. 3± 1. 2	11.7± 1.5	11.9± 1.2
4000 ppm	9.9± 0.7**	10.0± 0.8**	10.4± 0.9**	10.7± 1.0**	10.5± 1.0**	11.1± 1.1**	11. 2± 1. 2**

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

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

(HAN260)

BAIS 5

PAGE: 10

UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 11

Group Name	Administration	week					
	74	78	82	86	90	94	98
Control	12. 4± 1. 1	12.1± 1.5	12. 7 ± 1. 1	12. 4± 1. 4	12.7± 1.1	13.0± 1.3	12. 4± 2. 0
144	10.5 1.1	10.0	12.0.1.1.0	10.21 0.2	12.0 1.0	12.0 1.2	19 5 1 1 5
444 ppm	12.5± 1.1	12.2± 1.2	13.0± 1.2	12. 3± 2. 3	13. 0± 1. 2	13.0± 1.3	12.5± 1.5
1333 mag 8881	12. 2 ± 1. 3	11.8± 1.2	12.7± 1.2	12. 4± 1. 2	12. 2± 2. 1	12.7± 2.0	12.8± 1.1
					40.0		
	11.7± 1.1**	11. 4± 1. 1*	11.9± 1.2**	11.9± 1.4	12. 2± 1. 3*	12.0± 1.9**	12. 1 ± 1. 3
Significant differenc	ce;	** : P ≦ 0.01		Test of Dunnett			
(III NOCO)							D.A.

(HAN260)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

UNIT : g
REPORT TYPE : A1 104
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)

ALL ANIMALS

PAGE: 12

Group Name	Administrati			
	102	104		
Control	12.4± 1.6	12. 3± 2. 8		
444 ppm	12.8± 1.7	12.9± 2.2		
1222	10.5 1.5	10.0) 1.0		
1333 ppm	12.6± 1.5	12.8± 1.5		
4000 ppm	12.2± 1.5	11.9± 2.0*		
Significant difference ;	* : P ≤ 0.05	** : P ≤ 0.01	Test of Dunnett	
(ULNOSO)				DALC 5

(HAN260)

TABLE E 1

CHEMICAL INTAKE CHANGES: MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCriCrij[F344/DuCrj]

ALL ANIMALS

UNIT : mg/kg/day REPORT TYPE : A1 104

SEX : MALE

PAGE: 1

Group Name	Adminis	tration	(weeks)											
	1		2		3		4		5		6		7	
Control	0±	0	0±	0	0±	0	0±	0	0 ±	0	0±	0	0±	0
144 ppm	39±	1	34±	1	32±	1	29±	1	27 ±	1	25±	1	24±	1
333 ppm	114±	3	103±	3	94±	3	87±	2	82 ±	2	78±	2	74±	3
mqq 0001	$318\pm$	11	299±	10	277±	9	260±	10	246±	9	233±	9	220±	7

ANIMAL : RAT F344/DuCriCrij[F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 104

SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

Group Name	Adminic	tration	(weeks)		···	·····	γ				***************************************				
	8		9		10		11	***************************************	12		13		14		
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	
444 ppm	23±	1	22±	1	22±	1	21 ±	1	21 ±	1	$20\pm$	1	19±	1	
1333 ppm	71 ±	3	69±	2	67±	2	65 ±	2	64 ±	2	62 ±	2	60±	3	
4000 ppm	212±	8	205±	7	198±	7	194±	7	193±	9	187±	6	180±	5	

PAGE: 2

CHEMICAL INTAKE CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : RAT F344/DuCriCrij[F344/DuCrj] UNIT : mg/kg/day REPORT TYPE : A1 104

SEX : MALE

PAGE: 3

Group Name	Administ	ration	weeks)											
	18		22		26		30		34		38		42	
ontrol	0 ±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0
44 ppm	18±	1	18±	1	18±	1	17±	1	17±	1	17±	1	17±	1
333 mad 885	57±	2	55±	2	55±	2	53 ±	3	52 ±	2	51 ±	2	51 ±	2
4000 ppm	170±	6	168±	6	170±	7	160±	9	159±	5	155±	5	155±	7

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

UNIT : mg/kg/day REPORT TYPE : A1 104

SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

Group Name Administration (weeks) 54 58 62 50 66 70 0 Control $0\pm$ 0 $0\pm$ $0\pm$ $0\pm$ $0\pm$ 0 0 $0\pm$ 0 0 $0\pm$ 1 444 ppm 16± 1 16± 1 16± 16± $16 \pm$ 1 16± 1 16± 1333 ppm $50 \pm$ 3 $48\pm$ 2 49± 4 $48\,\pm\,$ 2 $48\,\pm\,$ 3 $49 \pm$ 2 $48\,\pm\,$ 3 4000 ppm $153\,\pm$ 6 147± 5 148士 7 $145\,\pm\,$ 10 $146\,\pm$ 8 $146 \pm$ 7 $146\pm$ 6

PAGE: 4

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

Group Name	Adminis	tration	(weeks)												
	74		78		82		86		90		94		98		
Control	0 ±	0	0±	0	0±	0	0±	0	0 ±	0	0 ±	0	0 ±	0	
444 ppm	16±	1	16±	1	16±	1	16±	2	16±	1	16±	2	16±	1	
1333 ррт	49 ±	3	48±	4	49±	2	48 ±	4	49±	4	49 ±	3	49±	5	
4000 ppm	149±	6	148±	10	149±	7	144±	7	148±	9	150±	10	149±	10	

PAGE: 5

BAIS 5 (HAN300)

STUDY NO. : 0739

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)
ALL ANIMALS

SEX : MALE				
Group Name	Adminis 102	stration	(weeks) 104	
Control	0±	0	0 ±	0
444 ppm	17±	3	17±	2
1333 ppm	49 ±	5	49±	10
4000 ppm	151 ±	13	154±	16
(HAN300)				

TABLE E 2

CHEMICAL INTAKE CHANGES: FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY) ALL ANIMALS

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

PAGE: 7

Group Name	Adminis	tration	(weeks)											
	1		2		3		4		5		6		7	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0土	0	0±	0
444 ppm	39±	1	36±	2	34±	2	32 ±	2	30±	2	28±	2	27±	2
1333 ppm	118±	4	108±	4	101±	4	96±	5	92±	5	87±	5	84±	4
4000 ppm	328±	18	$320\pm$	16	$295\pm$	14	284 \pm	20	$268\pm$	11	258±	13	$250\pm$	10

BAIS 5 (HAN300)

CHEMICAL INTAKE CHANGES (SUMMARY) ALL ANIMALS

STUDY NO.: 0739
ANIMAL: RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT: mg/kg/day
REPORT TYPE: A1 104

SEX : FEMALE

PAGE: 8

Group Name	Administration (weeks)													
	8		9		10		11		12		13		14	
Control	0±	0	0±	0	0±	0	0 ±	0	0±	0	0±	0	0 ±	0
444 ppm	26±	1	26±	2	25±	1	25 ±	1	24±	1	24±	1	24±	1
1333 ppm	80±	4	81 ±	4	79±	4	78±	4	76±	4	76±	4	74±	4
4000 ppm	241 ±	11	240±	15	234±	12	232±	11	232±	11	228±	16	222±	10

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY) ALL ANIMALS

PAGE: 9

Group Name	Administration 18													
			22		26		30		34		38		42	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0±	0	0 ±	0
444 ppm	23±	1	22±	1	22±	1	23±	2	23±	2	22±	1	22 ±	1
333 ppm	71 ±	4	69±	3	70±	4	68 ±	3	70±	4	69±	4	68±	5
4000 ppm	213±	10	211 ±	9	213±	8	206±	13	208±	13	207±	11	210±	13

BAIS 5 (HAN300)

UNIT : mg/kg/day REPORT TYPE : A1 104

SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

Group Name	Administration (weeks)													
	46		50		54		58		62		66		70	
	0.						0.1		٥.				0.	٥
Control	0 ±	0	0±	0	0±	0 .	0±	0	0±	0	0±	0	0 ±	0
444 ppm	21 ±	2	21 ±	2	21 ±	2	21 ±	2	21 ±	3	22±	2	21 ±	2
1333 ppm	67±	4	68±	5	68±	5	69±	5	68±	6	69±	7	68±	7
4000 ppm	210±	14	207±	15	214±	21	214±	17	210±	18	215±	17	213±	18

PAGE: 10

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

UNIT : mg/kg/day REPORT TYPE : A1 104

SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

Group Name	Adminis	tration	(weeks)											
	74		78		82		86		90		94		98	
Control	0±	0	0±	0	0±	0	0±	0	0±	0	0 <u>+</u>	0	0±	0
144 ppm	21 ±	2	20±	2	21 ±	2	19±	3	19±	2	19±	1	19±	2
1333 ppm	67±	7	64±	7	$67\pm$	6	64 ±	8	62±	11	63±	11	63±	7
4000 ppm	212±	17	206±	18	207±	17	204±	22	204±	20	199±	28	198±	20

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(HAN300) BAIS 5 STUDY NO. : 0739

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
UNIT : mg/kg/day
REPORT TYPE : A1 104
SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)

ALL ANIMALS

		ti a ti on	(weeks)	
	102		104	
Control	0 ±	0	0±	0
444 ppm	19±	2	19±	2
1333 ppm	62 ±	6	63±	7
4000 ppm	202±	24	197±	29

(HAN300)

BAIS 5

TABLE F 1

HEMATOLOGY: MALE

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

SEX : MALE		ΓΥΡE : A1						PAGE :
Group Name	NO. of Animals	RED BLOOD CELL 1 O ⁶ ∕µℓ	HEMOGLOB∣N g⁄dl	HEMATOCRIT %	MCV f &	MCH pg	MCHC g / dl	PLATELET 1 Ο³ / μℓ
Control	39	8. 21 ± 1. 45	13.7± 2.5	40. 7± 6. 7	49.8± 2.9	16.7± 1.1	33.6± 1.5	921 ± 289
444 ppm	36	7. 82 ± 1. 73	13.2± 2.8	39. 3± 7. 3	51. 5± 8. 3	17. 2± 2. 1	33. 4± 1. 8	924± 319
1333 ppm	35	7. 93 ± 1. 68	13.5± 2.4	40. 3± 5. 9	52. 3± 9. 5	17. 3± 2. 0	33. 3 ± 1. 8	899± 282
4000 ppm	41	8. 51 ± 1. 25	14.0± 2.3	41. 6± 5. 9	49. 0± 2. 7	16. 4± 1. 3	33. 5± 1. 5	906± 181

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

(HCL070) BAIS 5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] MEASURE. TIME : 1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

SEX : MALE REPORT TYPE : A1 PAGE: 2

444 ppm 1333 ppm	39	3.6± 2.8				
1333 ррт						
	36	5. 8± 9. 1				
4000 ppm	35	4. 7 ± 6. 5				
	41	3. 4± 2. 5				
Significant diff	. ,	e; *: P ≤ 0.05	** : P ≤ 0. 01	 Test of Dunnett		

(HCL070)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

PAGE: 3

Group Name	NO. of Animals	₩B(1 O³ /		Dí Neutro	fferentia	I WBC (9 LYMPHO	6)	MONO		EOSINO		BAS0		OTHER		
Control	39	7. 65 ±	7. 24	55±	13	38±	13	4 ±	1	1 ±	1	0 ±	0	1±	1	
444 ppm	36	7. 48±	10. 71	49±	10	44±	10	4 ±	1	1±	1	0 ±	0	2 ±	1	
333 ppm	35	26.80±	73. 53	49±	16	39±	14	4 ±	2	1±	1	0 ±	1	7±	22	
4000 ppm	41	5. 99±	2. 38	52±	7	42±	7	4±	1	1±	1	0±	0	1±	1	

(HCL070)

TABLE F 2

HEMATOLOGY: FEMALE

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[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 1 O⁵∕µℓ	HEMOGLOB∣N g∕dl	HEMATOCRIT %	MCV f &	MCH pg	MCHC g∕dl	PLATELET 1 O³/µl
Control	39	7. 93± 1. 82	14. 4± 3. 2	41. 5± 8. 3	54. 0± 8. 5	18. 4± 2. 1	34. 3± 2. 5	659± 125
144 ppm	39	8. 37 ± 0. 42	15. 2± 0. 8	43. 6 ± 2. 3	52. 0± 1. 0	18. 2± 0. 4	34. 9± 0. 6	673 ± 102
333 ppm	43	8. 31 ± 0. 84	15.1± 1.2	43. 3± 2. 9	52. 5± 3. 8	18. 3± 0. 9	34. 8± 0. 9	669 ± 93
4000 ppm	42	8. 26± 0. 76	15.0± 1.0	42. 8± 2. 6	52. 2 ± 4. 2*	18. 2± 1. 1	35. 0± 0. 7	695± 95

(HCL070) BAIS 5

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

PAGE: 5

Group Name	NO. of Animals	RETICUL %	OCYTE	
Control	39	3. 5±	4. 9	
444 ppm	39	2. 2±	0. 5	
1333 ppm	43	2.7±	2. 6	
4000 ppm	42	2.7±	4. 1	

(HCL070)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY) ALL ANIMALS (105W)

PAGE: 6

Group Name	NO. of Animals	WBC 1 O³∕μℓ	Di NEUTRO	fferentia	I WBC (% LYMPHO	5)	MONO		EOSINO		BAS0		OTHER		
Control	39	11. 14± 33. 02	40±	12	51 ±	14	4 ±	2	1 ±	1	0 ±	1	4 ±	15	
444 ppm	39	2. 85 ± 1. 41	42 ±	8	51 ±	8	4 ±	1	2±	1	0±	0	1±	0	
1333 ppm	43	3. 08 ± 2. 79	45 ±	14	49±	14	4 ±	1	2±	1	0±	0	1 ±	0	
4000 ppm	42	3. 33 ± 3. 92	39±	10	54±	10	3±	1	2 ±	1	0±	1	1 ±	2	

(HCL070) BAIS 5

TABLE G 1

BIOCHEMISTRY: MALE

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

PAGE: 1

Group Name	NO. of Animals	TOTAL PR g/dl	OTEIN	ALBUMIN g/dl		A/G RAT	10	T-BILI mg∕dl		GLUCOSE mg∕dl		T-CHOLES mg∕dl	STEROL	TRIGLYC mg∕dl	ERIDE
Control	39	6.8±	0. 4	2.8±	0. 3	0.7±	0. 1	0. 15±	0. 06	147±	25	183±	56	104±	80
44 ppm	36	6. 9±	0. 4	2.9±	0. 2	0.7±	0. 1	0.95±	4. 79	143±	25	$193\pm$	63	104±	65
333 ppm	35	6.8±	0. 6	2.8±	0. 3	0.7±	0. 1	0. 31 ±	0. 72	140±	29	205±	83	130±	87
1000 ppm	41	6.8±	0. 3	2.9±	0. 3	0.7±	0. 1	0.14±	0. 04	149±	20	171±	35	81 ±	38

BAIS 5 (HCL074)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1

SEX : MALE REPORT TYPE : A1 BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

32A . IIII.															
Group Name	NO. of Animals	PHOSPHOL mg∕dl	LIPID	AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	39	259±	88	100±	86	40±	25	119±	41	345±	185	6 ±	4	93±	23
444 ppm	36	284±	149	128±	223	51 ±	64	133±	91	321 ±	219	5±	3	97±	35
1333 ppm	35	301 ±	141	177±	342	49±	53	204±	280	375±	326	8±	8	193±	379
4000 ppm	41	239±	46	101±	59	37±	14	129±	50	346±	93	8±	4*	99±	45
Significant	difference ;	* : P ≤ 0.	. 05	** : P ≤ 0.0	1			Test of Dur	ınett						

PAGE: 2

(HCL074) BAIS 5

STUDY NO. : 0739

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

PAGE: 3

Group Name	NO. of Animals	UREA N mg∕dl	TROGEN	CREATIN mg/dl	INE	SODIUM mEq∕£		POTASSI mEq/		CHLORIDE mEq/l		CALCIUM mg∕dl		iNORGAN mg∕d£	IC PHOSPHORUS
Control	39	18.7±	3. 9	0.6±	0. 1	142±	1	3.8±	0. 3	107±	2	10.6±	0. 4	4. 0±	0. 5
444 ppm	36	18.8±	2. 7	0.6±	0. 1	142±	1	3.7±	0. 4	106±	2	10.7±	0. 4	4. 2 ±	0. 6
1333 ppm	35	19. 5±	4. 5	0.7±	0. 1	142±	1	3.9±	0. 5	106±	2	10.7±	0. 5	4.4±	0. 8
4000 ppm	41	20.8±	3. 2**	0.6±	0. 1	142±	1	3.8±	0. 3	106±	1	10.5±	0. 3	4.2±	0. 6

BAIS 5 (HCL074)

TABLE G 2

BIOCHEMISTRY: FEMALE

STUDY NO. : 0739

ANIMAL : RAT F344/DuCrICrIj [F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

Group Name	NO. of Animals	TOTAL PROTEIN g/dl	ALBUMIN g/dl	A/G RATIO	T-BILIRUBIN mg∕d£	GLUCOSE mg∕dl	T-CHOLESTEROL mg∕dl	TRIGLYCERIDE mg∕d£
Control	40	6. 9± 0. 7	3. 4± 0. 4	1. 0± 0. 1	0. 58± 2. 03	143± 20	148± 54	110± 109
144 ppm	39	7. 0± 0. 4	3.5± 0.3	1.0± 0.1	0. 11 ± 0. 02	152± 20	137± 31	97± 61
333 ppm	43	7. 0± 0. 5	3.5± 0.3	1. 0± 0. 1	0. 13 ± 0. 06	146± 17	146± 42	84± 59
4000 ppm	42	7. 2± 0. 4	3.6± 0.3	1. 0± 0. 1	0. 13 ± 0. 10	145± 22	139± 23	49± 37**

PAGE: 4

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

(HCL074) BAIS 5

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj] MEASURE. TIME : 1

SEX : FEMALE REPORT TYPE : A1 BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

PAGE: 5

Group Name	NO. of Animals	PHOSPHOI mg∕dl	LIPID	AST U/L		ALT U/L		LDH U/L		ALP U/L		G−GTP U∕L		CK U/L	
Control	40	257±	92	251 ±	649	68±	72	288±	627	325±	638	$3\pm$	4	151±	293
444 ppm	39	242±	58	130±	78	57±	40	161 ±	54	165±	49	2 ±	1	91 ±	28
1333 ppm	43	253±	70	138±	79	56±	23	149±	57	192±	138	3 ±	2	96±	39
4000 ppm	42	241 ±	41	143±	107	57±	38	149±	74	171±	73	2±	1	89±	22

(HCL074)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

MEASURE TIME: 1 SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY) ALL ANIMALS (105W)

PAGE: 6

Group Name	NO. of Animals	UREA NITROGEN mg∕dℓ	CREATININE mg∕dℓ	SODIUM mEq∕£	POTASSIUM mEq∕ℓ	CHLORIDE m Eq / l	CALCIUM mg∕dl	INORGANIC PHOSPHORUS mg∕dl
Control	40	22. 6± 31. 4	0.6± 0.3	141 ± 2	3.8± 0.9	106± 3	10.6± 0.4	4. 2 ± 2. 5
444 ppm	39	17. 4± 4. 8	0.6± 0.1	141± 1	3.6± 0.3	105± 2	10.6± 0.4	4. 0± 0. 9
1333 ppm	43	18. 4± 5. 3	0.6± 0.1	142± 1	3. 5 ± 0. 4	105± 2	10.6± 0.5	4. 0± 0. 9
4000 ppm	42	18. 5± 3. 6*	0.6± 0.1	141 ± 2	3.7± 0.4	105± 2	10.6± 0.5	4. 1 ± 0. 7

Significant difference ; $*: P \leq 0.05$

** : P ≤ 0.01

Test of Dunnett

BAIS 5 (HCL074)

TABLE H 1

URINALYSIS: MALE

URINALYSIS

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrICrIj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

PAGE: 1

Group Name	NO. of Animals	pH 5. 0	6. 0	6. 5	7. 0	7. 5	8. 0	8. 5 CH	Prot					СНІ	Glu 				- 4+	CHI		one ±			+ 4+	- (СНІ			ubin 2+ 3		СНІ
			***************************************			***********			 												******						***************************************					
Control	39	0	1	7	7	18	4	2	0	0 0	4	28	7		39	0	0	0 (0		34	2	3	0	0 0)		38	3 1	0	0	
444 ppm	36	0	0	4	8	17	5	2	0	0 0	4	29	3		36	0	0	0 (0		32	3	1	0	0 0)		33	2 3	0	1	
1333 ppm	36	0	1	6	8	14	5	2	0	0 1	3	27	5		36	0	0	0 (0		30	3	2	1	0 0)		33	2 2	0	2	
4000 ppm	42	0	1	5	7	13	6	10	0	0 0	7	34	1		42	0	0	0 (0		34	5	3	0	0 0)		39	2	0	1	

(HCL101)

URINALYSIS

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

MEASURE. TIME : 1

SEX : MALE		TYPE : A1		PAGE : 2
Group Name	NO. of Animals	Occult blood - ± + 2+ 3+ CHI	Urobilinogen ± + 2+ 3+ 4+ CHI	
Control	39	39 0 0 0 0	39 0 0 0 0	
444 ppm	36	36 0 0 0 0	35 1 0 0 0	
1333 ppm	36	35 1 0 0 0	35 0 1 0 0	
4000 ppm	42	41 0 0 1 0	42 0 0 0 0	
***************************************	***			
Significan	t difference	; * : P ≤ 0.05 **	: $P \le 0.01$ Test of CHI SQUARE	

(HCL101)

TABLE H 2

URINALYSIS: FEMALE

URINALYSIS

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : A1

PAGE: 3

Group Name	NO. of Animals	рН <u>_</u> 5. 0		6. 5	7. 0	7. 5	8. 0	8. 5 CHI	Protein	СНІ	Glucose - ± + 2+ 3+ 4+ CHI	Ketone body - ± + 2+ 3+ 4+ CHI	Bilirubin — + 2+ 3+ CHI
Control	41	0	5	4	6	18	6	2	0 0 2 14 24 1		41 0 0 0 0 0	27 14 0 0 0 0	38 1 0 2
444 ppm	40	0	1	5	6	19	7	2	0 0 2 13 23 2		40 0 0 0 0 0	20 19 1 0 0 0	40 0 0 0
333 ppm	43	0	2	3	11	16	9	2	0 0 5 19 18 1		43 0 0 0 0 0	24 19 0 0 0 0	43 0 0 0
1000 mag 0001	43	0	4	3	8	13	9	6	0 0 13 18 12 0	**	43 0 0 0 0 0	23 20 0 0 0 0	43 0 0 0

(HCL101)

STUDY NO. : 0739

URINALYSIS

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

MEASURE. TIME: 1

SEX : FEMALE

REPORT TYPE : A1

PAGE: 4

NO. of Animals	Occult blood - ± + 2+ 3+ CHI	Urobilinogen ± + 2+ 3+ 4+ CHI		
41	40 0 0 1 0	39 2 0 0 0		
40	40 0 0 0 0	40 0 0 0 0		
43	42 1 0 0 0	43 0 0 0 0		
43	43 0 0 0 0	43 0 0 0 0		
·				
t difference	;	: P ≤ 0.01	Test of CHI SQUARE	
	41 40 43 43	Animals — ± + 2+ 3+ CHI 41	Animals — ± + 2+ 3+ CHI ± + 2+ 3+ 4+ CHI 41	Animals — ± + 2+ 3+ CHI ± + 2+ 3+ 4+ CHI 41

(HCL101)

TABLE I 1

GROSS FINDINGS: MALE: ALL ANIMALS

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

an	Findings	Group Name Control NO. of Animals 50 (%)	444 ppm 50 (%)	1333 ppm 50 (%)	4000 ppm 50 (%)
n/app	nodu l e	3 (6)	3 (6)	3 (6)	1 (2)
	scab	0 (0)	0 (0)	0 (0)	1 (_2)
cutis	edema	1 (2)	0 (0)	0 (0)	0 (0)
	jaundice	1 (2)	1 (2)	2 (4)	0 (0)
	mass	12 (24)	7 (14)	6 (12)	10 (20)
g	red	2 (4)	0 (0)	0 (0)	0 (0)
	white zone	1 (2)	2 (4)	0 (0)	1 (2)
	red zone	0 (0)	0 (0)	1 (2)	0 (0)
	brown zone	1 (2)	0 (0)	0 (0)	0 (0)
	edema	0 (0)	0 (0)	0 (0)	1 (2)
	nodu l e	2 (4)	1 (2)	4 (8)	2 (4)
h node	enlarged	1 (2)	1 (2)	7 (14)	0 (0)
een	enlarged	4 (8)	10 (20)	5 (10)	3 (6)
	white zone	0 (0)	3 (6)	3 (6)	0 (0)
	nodu l e	0 (0)	1 (2)	0 (0)	0 (0)
rt	nodu l e	0 (0)	0 (0)	1 (2)	0 (0)
l cavity	nodu l e	0 (0)	0 (0)	1 (2)	0 (0)
gue	nodu l e	0 (0)	0 (0)	1 (2)	4 (8)
vary gl	nodu i e	1 (2)	0 (0)	0 (0)	1 (2)
nach	gas	1 (2)	0 (0)	0 (0)	0 (0)
	forestomach:ulcer	0 (0)	2 (4)	1 (2)	0 (0)
	forestomach:nodule	1 (2)	1 (2)	2 (4)	11 (22)

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

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

: MALE SEX

)rgan	Findings	Group Name Control NO. of Animals 50 (%)	444 ppm 50 (%)	1333 ppm 50 (%)	4000 ppm 50 (%)
tomach	forestomach: thick	0 (0)	0 (0)	0 (0)	1 (2)
	glandular stomach:ulcer	0 (0)	0 (0)	2 (4)	0 (0)
	glandular stomach:nodule	0 (0)	0 (0)	1 (2)	1 (2)
	glandular stomach:thick	0 (0)	1 (2)	1 (2)	1 (2)
mall intes	nodule	0 (0)	0 (0)	2 (4)	0 (0)
	gas	1 (2)	0 (0)	0 (0)	0 (0)
arge intes	red zone	1 (2)	0 (0)	0 (0)	0 (0)
	dilated	0 (0)	0 (0)	1 (2)	0 (0)
	gas	1 (2)	0 (0)	0 (0)	0 (0)
	thick	0 (0)	0 (0)	1 (2)	0 (0)
iver	enlarged	0 (0)	3 (6)	2 (4)	0 (0)
	white zone	0 (0)	1 (2)	0 (0)	0 (0)
	nodule	0 (0)	1 (2)	2 (4)	1 (2)
	rough	0 (0)	1 (2)	1 (2)	1 (2)
	herniation	4 (8)	3 (6)	4 (8)	7 (14)
cidney	nodule	0 (0)	0 (0)	0 (0)	1 (2)
	cyst	0 (0)	0 (0)	1 (2)	0 (0)
	deformed	0 (0)	0 (0)	0 (0)	1 (2)
	granular	10 (20)	7 (14)	8 (16)	4 (8)
rin bladd	red zone	1 (2)	0 (0)	0 (0)	0 (0)
	nodule	1 (2)	0 (0)	0 (0)	0 (0)
	urine:marked retention	1 (2)	2 (4)	0 (0)	1 (2)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

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

: MALE SEX

Organ	Findings	Group Name Control NO. of Animals 50 (%)	444 ppm 50 (%)	1333 ppm 50 (%)	4000 ppm 50 (%)
pituitary	enlarged	11 (22)	14 (28)	8 (16)	4 (8)
	red zone	7 (14)	9 (18)	6 (12)	9 (18)
	nodule	4 (8)	0 (0)	2 (4)	1 (2)
	cyst	0 (0)	0 (0)	0 (0)	2 (4)
thyroid	enlarged	4 (8)	5 (10)	8 (16)	2 (4)
	nodule	0 (0)	0 (0)	1 (2)	0 (0)
adrenal	enlarged	4 (8)	1 (2)	1 (2)	2 (4)
testis	red	0 (0)	0 (0)	0 (0)	1 (2)
	nodule	31 (62)	26 (52)	31 (62)	36 (72)
brain	red zone	1 (2)	2 (4)	1 (2)	1 (2)
	brown zone	0 (0)	0 (0)	0 (0)	1 (2)
	black zone	0 (0)	1 (2)	0 (0)	0 (0)
spinal cord	red zone	0 (0)	1 (2)	0 (0)	0 (0)
	brown zone	0 (0)	1 (2)	0 (0)	0 (0)
eye	sma!!	1 (2)	0 (0)	0 (0)	0 (0)
	turbid	0 (0)	0 (0)	1 (2)	0 (0)
	white	3 (6)	4 (8)	2 (4)	5 (10)
	red	2 (4)	0 (0)	0 (0)	0 (0)
Harder gl	enlarged	0 (0)	1 (2)	0 (0)	0 (0)
Zymbal gl	nodule	1 (2)	0 (0)	1 (2)	2 (4)
muscle	nodule	1 (2)	0 (0)	0 (0)	0 (0)
bone	nodu l e	0 (0)	0 (0)	2 (4)	0 (0)

STUDY NO. : 0739

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX

PAGE: 4 : MALE

Organ	Findings	Group Name Control NO. of Animals 50 (%)	444 ppm 50 (%)	1333 ppm 50 (%)	4000 ppm 50 (%)
pleura	nodule	0 (0)	0 (0)	1 (2)	1 (2)
mediastinum	mass	0 (0)	0 (0)	1 (2)	0 (0)
peritoneum	nodule	1 (2)	1 (2)	1 (2)	0 (0)
	thick	0 (0)	0 (0)	1 (2)	0 (0)
abdominal c	hemorrhage	0 (0)	1 (2)	1 (2)	0 (0)
	ascites	0 (0)	1 (2)	0 (0)	0 (0)
thoracic ca	pleural fluid	2 (4)	0 (0)	0 (0)	2 (4)
other	upper jaw:nodule	1 (2)	0 (0)	0 (0)	0 (0)
whole body	anemic	0 (0)	0 (0)	1 (2)	0 (0)

(HPT080) BAIS 5

TABLE I 2 GROSS FINDINGS: MALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0739

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

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

SEX : MALE

rgan	Findings	Group Name Control NO. of Animals 11 (%)	444 ppm 14 (%)	1333 ppm 14 (%)	4000 ppm 9 (%)
kin/app	nodule	0 (0)	1 (7)	0 (0)	0 (0)
ubcutis	edema	1 (9)	0 (0)	0 (0)	0 (0)
	jaundice	1 (9)	0 (0)	2 (14)	0 (0)
	mass	4 (36)	1 (7)	3 (21)	3 (33)
ing	red	2 (18)	0 (0)	0 (0)	0 (0)
	white zone	0 (0)	0 (0)	0 (0)	1 (11)
	red zone	0 (0)	0 (0)	1 (7)	0 (0)
	brown zone	1 (9)	0 (0)	0 (0)	0 (0)
	edema	0 (0)	0 (0)	0 (0)	1 (11)
	nodu l e	0 (0)	0 (0)	2 (14)	1 (11)
mph node	enlarged	1 (9)	1 (7)	1 (7)	0 (0)
leen	enlarged	2 (18)	5 (36)	2 (14)	2 (22)
	white zone	0 (0)	2 (14)	1 (7)	0 (0)
	nodu l e	0 (0)	1 (7)	0 (0)	0 (0)
art	nodu l e	0 (0)	0 (0)	1 (7)	0 (0)
ngue	nodu l e	0 (0)	0 (0)	1 (7)	0 (0)
omach	gas	1 (9)	0 (0)	0 (0)	0 (0)
	forestomach:ulcer	0 (0)	2 (14)	1 (7)	0 (0)
	glandular stomach:ulcer	0 (0)	0 (0)	2 (14)	0 (0)
all intes	nodu l e	0 (0)	0 (0)	1 (7)	0 (0)
	gas	1 (9)	0 (0)	0 (0)	0 (0)
rge intes	red zone	1 (9)	0 (0)	0 (0)	0 (0)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCr|Cr|j[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

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

gan	Findings	Group Name Control NO. of Animals 11 (%)	444 ppm 14 (%)	1333 ppm 14 (%)	4000 ppm 9 (%)
rge intes	dilated	0 (0)	0 (0)	1 (7)	0 (0)
	gas	1 (9)	0 (0)	0 (0)	0 (0)
	thick	0 (0)	0 (0)	1 (7)	0 (0)
ver	enlarged	0 (0)	3 (21)	1 (7)	0 (0)
	rough	0 (0)	1 (7)	0 (0)	0 (0)
	herniation	1 (9)	1 (7)	1 (7)	1 (11)
dney	granular	2 (18)	0 (0)	1 (7)	0 (0)
in bladd	red zone	1 (9)	0 (0)	0 (0)	0 (0)
	urine:marked retention	1 (9)	2 (14)	0 (0)	1 (11)
uitary	enlarged	6 (55)	6 (43)	4 (29)	1 (11)
	red zone	1 (9)	2 (14)	0 (0)	2 (22)
	nodule	0 (0)	0 (0)	1 (7)	0 (0)
roid	enlarged	0 (0)	1 (7)	1 (7)	0 (0)
	nodule	0 (0)	0 (0)	1 (7)	0 (0)
renal	enlarged	3 (27)	0 (0)	0 (0)	0 (0)
itis	red	0 (0)	0 (0)	0 (0)	1 (11)
	nodule	1 (9)	2 (14)	1 (7)	2 (22)
nin	red zone	1 (9)	2 (14)	1 (7)	1 (11)
	brown zone	0 (0)	0 (0)	0 (0)	1 (11)
	black zone	0 (0)	1 (7)	0 (0)	0 (0)
nal cord	red zone	0 (0)	1 (7)	0 (0)	0 (0)
	brown zone	0 (0)	1 (7)	0 (0)	0 (0)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

: MALE SEX

)rgan	Findings	Group Name Control NO. of Animals 11 (%)	444 ppm 14 (%)	1333 ppm 14 (%)	4000 ppm 9 (%)
eye	small	1 (9)	0 (0)	0 (0)	0 (0)
	turbid	0 (0)	0 (0)	1 (7)	0 (0)
	white	2 (18)	1 (7)	0 (0)	0 (0)
	red	2 (18)	0 (0)	0 (0)	0 (0)
larder gl	enlarged	0 (0)	1 (7)	0 (0)	0 (0)
ymbal gl	nodu l e	1 (9)	0 (0)	1 (7)	2 (22)
uscle	nodule	1 (9)	0 (0)	0 (0)	0 (0)
one	nodule	0 (0)	0 (0)	2 (14)	0 (0)
leura	nodu l e	0 (0)	0 (0)	1 (7)	0 (0)
ediastinum	mass	0 (0)	0 (0)	1 (7)	0 (0)
peritoneum	nodu l e	0 (0)	0 (0)	1 (7)	0 (0)
	thick	0 (0)	0 (0)	1 (7)	0 (0)
bdominal c	hemorrhage	0 (0)	1 (7)	1 (7)	0 (0)
horacic ca	pleural fluid	2 (18)	0 (0)	0 (0)	2 (22)
nole body	anemic	0 (0)	0 (0)	1 (7)	0 (0)

(HPT080)

BAIS 5

TABLE I 3

GROSS FINDINGS: MALE: SACRIFICED ANIMALS

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : MALE

rgan	Findings	Group Name Control NO. of Animals 39 (%)	444 ppm 36 (%)	1333 ppm 36 (%)	4000 ppm 41 (%)
skin/app	nodu l e	3 (8)	2 (6)	3 (8)	1 (2)
	scab	0 (0)	0 (0)	0 (0)	1 (2)
subcutis	jaundice	0 (0)	1 (3)	0 (0)	0 (0)
	mass	8 (21)	6 (17)	3 (8)	7 (17)
ung	white zone	1 (3)	2 (6)	0 (0)	0 (0)
	nodu l e	2 (5)	1 (3)	2 (6)	1 (2)
ymph node	enlarged	0 (0)	0 (0)	6 (17)	0 (0)
pleen	enlarged	2 (5)	5 (14)	3 (8)	1 (2)
	white zone	0 (0)	1 (3)	2 (6)	0 (0)
ral cavity	nodu l e	0 (0)	0 (0)	1 (3)	0 (0)
ongue	nodule	0 (0)	0 (0)	0 (0)	4 (10)
alivary gl	nodule	1 (3)	0 (0)	0 (0)	1 (2)
tomach	forestomach:nodule	1 (3)	1 (3)	2 (6)	11 (27)
	forestomach:thick	0 (0)	0 (0)	0 (0)	1 (2)
	glandular stomach:nodule	0 (0)	0 (0)	1 (3)	1 (2)
	glandular stomach:thick	0 (0)	1 (3)	1 (3)	1 (2)
mall intes	nodule	0 (0)	0 (0)	1 (3)	0 (0)
liver	enlarged	0 (0)	0 (0)	1 (3)	0 (0)
	white zone	0 (0)	1 (3)	0 (0)	0 (0)
	nodule	0 (0)	1 (3)	2 (6)	1 (2)
	rough	0 (0)	0 (0)	1 (3)	1 (2)
	herniation	3 (8)	2 (6)	3 (8)	6 (15)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : MALE PAGE: 2

)rgan	Findings	Group Name Control NO. of Animals 39 (%)	444 ppm 36 (%)	1333 ppm 36 (%)	4000 ppm 41 (%)
kidney	nodule	0 (0)	0 (0)	0 (0)	1 (2)
	cyst	0 (0)	0 (0)	1 (3)	0 (0)
	deformed	0 (0)	0 (0)	0 (0)	1 (2)
	granular	8 (21)	7 (19)	7 (19)	4 (10)
rin bladd	nodu l e	1 (3)	0 (0)	0 (0)	0 (0)
ituitary	enlarged	5 (13)	8 (22)	4 (11)	3 (7)
	red zone	6 (15)	7 (19)	6 (17)	7 (17)
	nodule	4 (10)	0 (0)	1 (3)	1 (2)
	cyst	0 (0)	0 (0)	0 (0)	2 (5)
yroid	enlarged	4 (10)	4 (11)	7 (19)	2 (5)
renal	enlarged	1 (3)	1 (3)	1 (3)	2 (5)
estis	nodule	30 (77)	24 (67)	30 (83)	34 (83)
re	white	1 (3)	3 (8)	2 (6)	5 (12)
eura	nodule	0 (0)	0 (0)	0 (0)	1 (2)
ritoneum	nodule	1 (3)	1 (3)	0 (0)	0 (0)
dominal c	ascites	0 (0)	1 (3)	0 (0)	0 (0)
ther	upper jaw:nodule	1 (3)	0 (0)	0 (0)	0 (0)

(HPT080)

TABLE I 4

GROSS FINDINGS: FEMALE: ALL ANIMALS

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

REPORT TYPE : A1

: FEMALE SEX

gan	Findings	Group Name Control NO. of Animals 50 (%)	444 ppm 50 (%)	1333 ppm 50 (%)	4000 ppm 50 (%)
in/app	nodule	0 (0)	1 (2)	0 (0)	1 (2)
	mass	1 (2)	0 (0)	0 (0)	0 (0)
	scab	0 (0)	0 (0)	0 (0)	1 (2)
ocutis	jaundice	2 (4)	0 (0)	1 (2)	1 (2)
	mass	16 (32)	13 (26)	9 (18)	6 (12)
al cavit	red zone	0 (0)	1 (2)	0 (0)	0 (0)
	nodule	1 (2)	0 (0)	0 (0)	0 (0)
ng	white zone	3 (6)	0 (0)	1 (2)	1 (2)
	red zone	1 (2)	1 (2)	0 (0)	0 (0)
	nodule	0 (0)	0 (0)	0 (0)	1 (2)
nph node	enlarged	0 (0)	1 (2)	0 (0)	0 (0)
een	enlarged	8 (16)	5 (10)	8 (16)	2 (4)
	nodule	0 (0)	1 (2)	0 (0)	0 (0)
art	enlarged	1 (2)	0 (0)	0 (0)	0 (0)
	white zone	0 (0)	0 (0)	0 (0)	1 (2)
ngue	nodule	2 (4)	0 (0)	1 (2)	2 (4)
omach	forestomach:ulcer	0 (0)	1 (2)	0 (0)	1 (2)
	forestomach:nodule	0 (0)	1 (2)	2 (4)	4 (8)
	forestomach:thick	0 (0)	1 (2)	0 (0)	1 (2)
	glandular stomach:ulcer	1 (2)	0 (0)	0 (0)	0 (0)
	glandular stomach:nodule	0 (0)	0 (0)	1 (2)	1 (2)
	glandular stomach:white zone	0 (0)	0 (0)	1 (2)	0 (0)

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

REPORT TYPE : A1

SEX : FEMALE

gan	Findings	Group Name Control NO. of Animals 50 (%)	444 ppm 50 (%)	1333 ppm 50 (%)	4000 ppm 50 (%)
ver .	enlarged	0 (0)	0 (0)	1 (2)	0 (0)
	white zone	0 (0)	0 (0)	3 (6)	0 (0)
	nodu l e	2 (4)	0 (0)	0 (0)	0 (0)
	rough	1 (2)	1 (2)	4 (8)	3 (6)
	herniation	6 (12)	8 (16)	5 (10)	11 (22)
reas	nodule	0 (0)	1 (2)	0 (0)	0 (0)
ney	enlarged	1 (2)	0 (0)	0 (0)	0 (0)
	white zone	0 (0)	1 (2)	0 (0)	2 (4)
	granular	2 (4)	0 (0)	1 (2)	0 (0)
itary	enlarged	7 (14)	5 (10)	6 (12)	12 (24)
	red zone	15 (30)	8 (16)	8 (16)	10 (20)
	black zone	0 (0)	0 (0)	0 (0)	1 (2)
	nodule	2 (4)	5 (10)	0 (0)	0 (0)
	cyst	0 (0)	1 (2)	0 (0)	1 (2)
roid	enlarged	2 (4)	1 (2)	4 (8)	1 (2)
	nodule	1 (2)	0 (0)	0 (0)	0 (0)
enal	enlarged	1 (2)	1 (2)	1 (2)	1 (2)
ry	enlarged	0 (0)	1 (2)	0 (0)	2 (4)
	nodule	0 (0)	1 (2)	0 (0)	0 (0)
	cyst	1 (2)	0 (0)	2 (4)	2 (4)
us	nodu l e	2 (4)	7 (14)	11 (22)	7 (14)
	cyst	0 (0)	0 (0)	2 (4)	0 (0)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCr|Cr|j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE: 7

gan	Findings	Group Name Control NO. of Animals 50 (%)	444 ppm 50 (%)	1333 ppm 50 (%)	4000 ppm 50 (%)
terus	dilated lumen	0 (0)	0 (0)	1 (2)	0 (0)
ain	red zone	0 (0)	3 (6)	1 (2)	0 (0)
oinal cord	red zone	1 (2)	3 (6)	2 (4)	0 (0)
re	white	1 (2)	4 (8)	3 (6)	5 (10)
ritoneum	white zone	0 (0)	1 (2)	0 (0)	0 (0)
	nodu l e	0 (0)	1 (2)	0 (0)	1 (2)
	mass	0 (0)	1 (2)	0 (0)	0 (0)
dominal c	hemorrhage	1 (2)	1 (2)	0 (0)	0 (0)
	ascites	0 (0)	1 (2)	1 (2)	1 (2)
oracic ca	pleural fluid	1 (2)	0 (0)	0 (0)	1 (2)
ner	nose:nodule	0 (0)	0 (0)	1 (2)	0 (0)
ole body	anemic	0 (0)	0 (0)	1 (2)	0 (0)

(HPT080)

BAIS 5

TABLE I 5
GROSS FINDINGS: FEMALE: DEAD AND MORIBUND ANIMALS

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

Organ	Findings	Group Name Control NO. of Animals 10 (%)	444 ppm 10 (%)	1333 ppm 7 (%)	4000 ppm 7 (%)
skin/app	nodu l e	0 (0)	0 (0)	0 (0)	1 (14)
	mass	1 (10)	0 (0)	0 (0)	0 (0)
subcutis	jaundice	2 (20)	0 (0)	1 (14)	1 (14)
	mass	4 (40)	3 (30)	1 (14)	0 (0)
nasal cavit	red zone	0 (0)	1 (10)	0 (0)	0 (0)
lung	white zone	0 (0)	0 (0)	1 (14)	0 (0)
	red zone	1 (10)	1 (10)	0 (0)	0 (0)
lymph node	enlarged	0 (0)	1 (10)	0 (0)	0 (0)
spleen	enlarged	5 (50)	4 (40)	6 (86)	1 (14)
heart	enlarged	1 (10)	0 (0)	0 (0)	0 (0)
stomach	forestomach:ulcer	0 (0)	1 (10)	0 (0)	1 (14)
	glandular stomach:ulcer	1 (10)	0 (0)	0 (0)	0 (0)
liver	enlarged	0 (0)	0 (0)	1 (14)	0 (0)
	rough	0 (0)	1 (10)	2 (29)	0 (0)
	herniation	1 (10)	3 (30)	2 (29)	3 (43)
kidney	enlarged	1 (10)	0 (0)	0 (0)	0 (0)
	white zone	0 (0)	1 (10)	0 (0)	0 (0)
pituitary	enlarged	2 (20)	1 (10)	0 (0)	2 (29)
	red zone	4 (40)	0 (0)	3 (43)	1 (14)
thyroid	enlarged	0 (0)	0 (0)	1 (14)	1 (14)
adrenal	enlarged	1 (10)	1 (10)	0 (0)	1 (14)
ovary	enlarged	0 (0)	1 (10)	0 (0)	1 (14)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

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

PAGE: 5

Organ	Findings	Group Name Control NO. of Animals 10 (%)	444 ppm 10 (%)	1333 ppm 7 (%)	4000 ppm 7 (%)
uterus	nodu l e	1 (10)	3 (30)	1 (14)	3 (43)
	cyst	0 (0)	0 (0)	2 (29)	0 (0)
	dilated lumen	0 (0)	0 (0)	1 (14)	0 (0)
brain	red zone	0 (0)	3 (30)	1 (14)	0 (0)
spinal cord	red zone	1 (10)	3 (30)	2 (29)	0 (0)
еуе	white	0 (0)	0 (0)	0 (0)	1 (14)
peritoneum	white zone	0 (0)	1 (10)	0 (0)	0 (0)
	nodu l e	0 (0)	1 (10)	0 (0)	1 (14)
abdominal c	hemorrhage	1 (10)	1 (10)	0 (0)	0 (0)
	ascites	0 (0)	1 (10)	1 (14)	1 (14)
thoracic ca	pleural fluid	1 (10)	0 (0)	0 (0)	1 (14)
hole body	anemic	0 (0)	0 (0)	1 (14)	0 (0)

(HPT080)

BAIS 5

TABLE I 6

GROSS FINDINGS: FEMALE: SACRIFICED ANIMALS

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

Organ	Findings	Group Name Control NO. of Animals 40 (%)	444 ppm 40 (%)	1333 ppm 43 (%)	4000 ppm 43 (%)
skin/app	nodule	0 (0)	1 (3)	0 (0)	0 (0)
	scab	0 (0)	0 (0)	0 (0)	1 (2)
subcutis	mass	12 (30)	10 (25)	8 (19)	6 (14)
nasal cavit	nodule	1 (3)	0 (0)	0 (0)	0 (0)
lung	white zone	3 (8)	0 (0)	0 (0)	1 (2)
	nodule	0 (0)	0 (0)	0 (0)	1 (2)
spleen	enlarged	3 (8)	1 (3)	2 (5)	1 (2)
	nodule	0 (0)	1 (3)	0 (0)	0 (0)
neart	white zone	0 (0)	0 (0)	0 (0)	1 (2)
tongue	nodule	2 (5)	0 (0)	1 (2)	2 (5)
stomach	forestomach:nodule	0 (0)	1 (3)	2 (5)	4 (9)
	forestomach:thick	0 (0)	1 (3)	0 (0)	1 (2)
	glandular stomach:nodule	0 (0)	0 (0)	1 (2)	1 (2)
	glandular stomach:white zone	0 (0)	0 (0)	1 (2)	0 (0)
liver	white zone	0 (0)	0 (0)	3 (7)	0 (0)
	nodule	2 (5)	0 (0)	0 (0)	0 (0)
	rough	1 (3)	0 (0)	2 (5)	3 (7)
	herniation	5 (13)	5 (13)	3 (7)	8 (19)
pancreas	nodu l e	0 (0)	1 (3)	0 (0)	0 (0)
cidney	white zone	0 (0)	0 (0)	0 (0)	2 (5)
	granular	2 (5)	0 (0)	1 (2)	0 (0)
oituitary	enlarged	5 (13)	4 (10)	6 (14)	10 (23)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCr|Cr|j[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY) SACRIFICED ANIMALS (105W)

PAGE: 4

gan	Findings	Group Name Control NO. of Animals 40 (%)	444 ppm 40 (%)	1333 ppm 43 (%)	4000 ppm 43 (%)
uitary	red zone	11 (28)	8 (20)	5 (12)	9 (21)
	black zone	0 (0)	0 (0)	0 (0)	1 (2)
	nodule	2 (5)	5 (13)	0 (0)	0 (0)
	cyst	0 (0)	1 (3)	0 (0)	1 (2)
roid	enlarged	2 (5)	1 (3)	3 (7)	0 (0)
	nodule	1 (3)	0 (0)	0 (0)	0 (0)
nal	enlarged	0 (0)	0 (0)	1 (2)	0 (0)
,	enlarged	0 (0)	0 (0)	0 (0)	1 (2)
	nodule	0 (0)	1 (3)	0 (0)	0 (0)
	cyst	1 (3)	0 (0)	2 (5)	2 (5)
ıs	nodule	1 (3)	4 (10)	10 (23)	4 (9)
	white	1 (3)	4 (10)	3 (7)	4 (9)
toneum	mass	0 (0)	1 (3)	0 (0)	0 (0)
r	nose:nodule	0 (0)	0 (0)	1 (2)	0 (0)

(HPT080)

BAIS 5

TABLE J 1

ORGAN WEIGHT, ABSOLUTE: MALE

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 SEX : MALE

UNIT: g

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

Group Name	NO. of Animals	Body Weight	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS	
Control	39	385± 37	0. 120± 0. 205	3. 376± 1. 522	1. 252 ± 0. 110	1. 441± 0. 149	2. 822± 0. 260	
144 ppm	36	391 ± 34	0. 085± 0. 019	2. 954± 1. 301	1. 281 ± 0. 124	1. 461 ± 0. 186	2. 872 ± 0. 284	
333 ppm	35	370± 35	0. 086± 0. 024	3. 136± 1. 354	1. 195 ± 0. 072	1. 464± 0. 298	2. 935± 0. 387	
1000 ppm	41	361± 31**	0. 147± 0. 443*	* 3. 243 ± 1. 335	1. 189 ± 0. 082**	1. 379± 0. 154*	2. 786± 0. 296	

(HCL040)

BAIS 5

REPORT TYPE : A1

SEX : MALE UNIT: g

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

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN	
Control	39	1. 280± 0. 706	11. 167± 1. 608	2. 117± 0. 039	
444 ppm	36	1. 670± 2. 206	11. 437 ± 1. 436	2. 117 ± 0. 038	
1333 ppm	35	2. 256± 4. 154	12. 283 ± 3. 110	2. 124± 0. 042	
4000 ppm	41	0. 996± 0. 408 * *	10. 537± 1. 565	2. 124± 0. 044	
Significan	nt difference ;	* : P ≤ 0.05 **	: P ≤ 0. 01	Test of Dunnett	
(HCL040)					BAIS 5

TABLE J 2

ORGAN WEIGHT, ABSOLUTE: FEMALE

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrICrIj[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	ADREM	VALS	OVAR	IES	HEAR	Т	LUNG	S	KIDN	EYS	
Control	40	280± 33	0. 083±	0. 011	0. 154±	0. 089	0. 945±	0. 103	1. 046±	0. 233	1. 907±	0. 191	
444 ppm	39	285± 34	0.085±	0. 009	0. 149±	0. 024	0. 914±	0. 066	0. 991±	0. 073	1. 909±	0. 160	
1333 ppm	43	258± 42**	0. 088±	0. 042	0. 219±	0. 377	0. 900±	0. 063	0. 987±	0. 103	1. 891 ±	0. 181	
4000 ppm	42	227± 22**	0. 075 \pm	0. 008**	0. 142±	0. 039	0. 858 \pm	0. 076**	0.979±	0. 096	1.789±	0. 135**	
Significan	it difference ;	* : P ≤ 0.05	** : P ≤ 0.01			Tes	t of Dunnett						***************************************
(HCL040)													BA

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1 SEX : FEMALE UNIT: g

ORGAN WEIGHT: ABSOLUTE (SUMMARY)

SURVIVAL ANIMALS (105W)

UNIT: g					PAGE : 4
Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN	
Control	40	1. 011± 1. 330	7. 327 ± 1. 257	1. 927 ± 0. 046	
444 ppm	39	0.720± 0.535	7. 287 ± 1. 244	1. 926± 0. 039	
1333 ppm	43	0. 766± 0. 848*	6. 887± 0. 991*	1.931 ± 0.037	
4000 ppm	42	0. 696± 0. 968 * *	6. 499± 0. 851**	1. 942 ± 0. 049	
Significan	t difference ;	* : P ≤ 0.05 **	: P ≤ 0. 01	Test of Dunnett	
(HCL040)	P/P/2/A 2/P/2/A 2/P/2/P/2/A 2/P/2/A 2/P/2/A 2/P/2/A 2/P/2/A 2/P/2/A 2/P/2/A 2/P/2/A 2/	, , , , , , , , , , , , , , , , , , , ,			BAIS 5

TABLE K 1

ORGAN WEIGHT, RELATIVE: MALE

ANIMAL : RAT F344/DuCrlCrlj[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	39	385± 37	0. 030± 0. 047	0.892± 0.429	0. 327± 0. 039	0. 377± 0. 048	0. 736± 0. 072	
44 ppm	36	391± 34	0. 022± 0. 005	0. 756± 0. 327	0. 329 ± 0. 038	0. 377± 0. 068	0. 739± 0. 092	
333 ppm	35	370± 35	0. 024± 0. 007	0. 842 ± 0. 346	0. 326 ± 0. 031	0. 404± 0. 122	0.805± 0.158	
mag 000	41	361± 31**	0. 040 ± 0. 117	0. 912± 0. 397	0. 331 ± 0. 026	0. 384± 0. 046	0. 775± 0. 085*	

(HCL042)

BAIS 5

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

REPORT TYPE : A1

SEX : MALE UNIT: %

PAGE: 2

BRAIN	LIVER	SPLEEN	NO. of Animals	Group Name
0. 554± 0. 052	2. 899± 0. 312	0. 333± 0. 179	39	Control
0. 546± 0. 052	2. 931 ± 0. 339	0. 441 ± 0. 651	36	444 ppm
0. 580± 0. 059	3. 382 ± 1. 085	0. 670± 1. 366	35	1333 ppm
0. 593± 0. 051**	2. 920± 0. 320	0. 277± 0. 108	41	4000 ppm
0.593± 0.051** Test of Dunnett	2. 920± 0. 320 P ≤ 0. 01		41 t difference ;	

(HCL 042)

BAIS 5

TABLE K 2

ORGAN WEIGHT, RELATIVE: FEMALE

REPORT TYPE : A1 SEX : FEMALE UNIT: %

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

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	40	280 ± 33	0. 030± 0. 007	0. 055± 0. 030	0. 344± 0. 070	0. 382 ± 0. 119	0. 691 ± 0. 110
444 ppm	39	285± 34	0. 030± 0. 005	0. 052± 0. 008	0. 324± 0. 032	0. 352± 0. 046	0. 678 ± 0. 100
1333 ppm	43	258± 42**	0. 034± 0. 010	0.089± 0.160*	0. 357± 0. 059**	0. 394± 0. 092*	0. 756± 0. 184**
4000 ppm	42	227± 22**	0. 033± 0. 005**	0.063± 0.021**	0. 381 ± 0. 039**	0. 436± 0. 067**	0. 794± 0. 083**

ANIMAL : RAT F344/DuCrICrIj [F344/DuCrj] REPORT TYPE : A1 SEX : FEMALE UNIT: %

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

PAGE: 4

Control 40				
COILLIOI 40	0. 392± 0. 582	2 2. 658± 0. 608	0. 698± 0. 085	
444 ppm 39	0. 249± 0. 161	2. 556± 0. 297	0. 687± 0. 112	
1333 ppm 43	0. 319± 0. 427	7 2. 730± 0. 551	0.767± 0.121**	
4000 ppm 42	0. 311± 0. 440	2. 875± 0. 366**	0.865± 0.093**	

(HCL042)

BAIS 5

TABLE L 1

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS: MALE: ALL ANIMALS

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

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

REPORT TYPE : A1

SEX : MALE

		Group Name Control No. of Animals on Study 50		444 ppm 50	1333 ppm 50	4000 ppm 50
Organ	Findings	No. of Animals on Study 50 Grade 1+ 2+ 3+ (%) (%) (%)	4+ (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
{ ntegumentar	y system/appandage}					
skin/app	erosion	<50> 0 0 0 (0) (0) (0)	0 (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 1 0 0 0 (2) (0) (0) (0)
	scab	0 0 0 (0) (0)	0 (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (4) (4) (0) (0) (0)	0 0 0 0 0 (0) (0)
subcutis	cyst	<50> 1 0 0 (2) (0) (0)	0 (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	(50) (0) (0) (0) (0)
	abscess	0 0 0 (0) (0)	0 (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (3) (4)	0 0 0 0 0 (0) (0)
{Respiratory :	system)					
nasal cavit	thrombus	(50) 1 0 0 (2) (0) (0)	0 (0)	<49> 1 0 0 0 (2) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	\(\langle 48 \rangle \) \(1 0 0 \\ (2) (0) (0) (0) \)
	mineralization	33 0 0 (66) (0) (0)	0 (0)	25 0 0 0 (51) (0) (0) (0)	33 0 0 0 (66) (0) (0) (0)	26 0 0 0 (54) (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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE PAGE: 2

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
Organ	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Respiratory	system)				
nasal cavit	rhinitis	<pre></pre>	0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<48> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	eosinophilic change:olfactory epithe	31 12 2 0 (62) (24) (4) (0)	35 10 0 0 (71) (20) (0) (0)	32 7 1 0 (64) (14) (2) (0)	35 9 1 0 (73) (19) (2) (0)
	eosinophilic change:respiratory epit	helium 9 0 0 0 (18) (0) (0)	6 0 0 0 (12) (0) (0) (0)	3 0 0 0 0 (6) (6) (0) (0)	7 0 0 0 (15) (0) (0) (0)
	inflammation:foreign body	19 3 0 0 (38) (6) (0) (0)	9 5 1 0 (18) (10) (2) (0)	25 3 0 0 (50) (6) (0) (0)	15 2 0 0 (31) (4) (0) (0)
	inflammation:respiratory epithelium	11 0 0 0 (22) (0) (0) (0)	11 1 0 0 (22) (2) (0) (0)	6 0 0 0 (12) (0) (0) (0)	9 0 0 0 0 (19) (0) (0)
	inflammation:olfactory epithelium	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	respiratory metaplasia:olfactory epi	thelium 11 0 0 0 (22) (0) (0) (0)	10 0 0 0 (20) (0) (0)	9 1 0 0 (18) (2) (0) (0)	7 0 0 0 (15) (0) (0) (0)
	respiratory metaplasia:gland	47 0 0 0 (94) (0) (0) (0)	49 0 0 0 (100) (0) (0) (0)	48 1 0 0 (96) (2) (0) (0)	46 1 0 0 (96) (2) (0) (0)

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

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

b b: Number of animals with lesion

c : b / a * 100

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

		Group Name No. of Animals on Stud		ontrol 50)			444	ppm 50				13	33 ppr 51					4000	ppm 50		
)rgan	Findings	Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	(2+ %)	3+ (%)	4+ (%)		1+ %)	2+ (%)	3+ (%)	4+ (%)		1+ (%)		+	3+ (%)	4+ (%)
Respiratory s	system)																					
nasal cavit	ulcer:respiratory epithelium	(0	<50 0 (0))> 0 (0)	0 (0)	0 (0)	(<49) 0 0) (0 0 0)	0 (0)	(0 0) (<5(0 0)	0> 0 (0)	0 (0)	(1 2)	0)	<48>) (0 0) (0 0)
	hyperplasia:transitional epithelium	(1 2)	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)
	necrosis:olfactory epithelium	(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)
larynx	inflammatory infiltration	{	3 6)	<50 0 (0)	0	0 (0)	1 (2)	(<50) 0 0) (0 0)	0 (0)	(2 4) (<50 0 0)	0> 0 (0)	0 (0)	(1 2)	0)	<50>) (0 0) (0 0)
trachea	inflammatory infiltration	(0	<50 0 (0) (0	0 (0)	0 (0)	{	<50) 0 0) (0 0)	0 (0)	(1 2) (<50 0 0)	0> 0 (0)	0 (0)	(0 0)	0 (<50>	0 0) (0 0)
lung	congestion	(0	<50 0 (0)	0	0 (0)	1 (2)	(<50) 0 0) (0 0)	0 (0)	(0 0) (<50 0 0)	0> 0 (0)	0 (0)	(0 0)	0	<50>	0 0) (0 0)
	hemorrhage	(1 2) (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)

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

: MALE SEX

		Group Name No. of Animals on Stud Grade		ontro 24	50	3+		4 +	1		4 pp 2+	50	3+		1 +		1: 1+		ppm 50 +			4+		1+		0 pp 5 2+	50	3+	4	+
Organ	Findings		(%)	(%)		(%)		(%)	(%		(%)		(%)	((%)	(5		(%)		(%)		(%)		(%)		%)	(%))
{Respiratory s	ystem)																													
lung	inflammatory infiltration	(3 6)	2	<50>	0	(0 0)	1) ((0 0)	50> (0 0)	()))	{	3 6)	(<50))) (0	(0 0)	(1 2)		2		0 0) (0 (0)	
	accumulation of foamy cells	(1 2)	0 (0)	(0 0)	{	0 0)	1 2) (0 0)	(0 0)	{)))	(0 0)	(())) (0	(0 0)	(0 0)	(0 0)	(0 0) (0)
	bronchopneumonia		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))
	bronchiolar-alveolar cell hyperplasia	(2 4)	2 (4)	(2 4)	(0 0)	1 2) (1 2)	{	1 2)	()))	(1 2)	1	! ?) (1 2)	(0 0)	(2 4)	(2 4)	(0 0) (0 (0))
	uremic pneumonitis	(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)	
{Hematopoietic	system)																													
bone marrow	congestion	ſ	0 0)	0		0	(0 0)	0 (0)) (0 0)	49> (0 0)	(()))	(1 2)	((<50))) ((0 0)	(0 0)		0		0 0) (0)
	hemorrhage	(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)	

⁽ c) c : b / a * 100 Significant difference ; * : P \leq 0.05 ** : P \leq 0.01 Test of Chi Square

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX : MALE PAGE: 5

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1+ 2+ 3+ 4+ (%) (%) (%)	444 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Hematopoietic	c system)				
bone marrow	granulation	<50> 1 0 0 0 (2) (0) (0) (0)	<49> 0 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>	<48> 0 0 0 0 0 0 0 0 0 0 0 0 0
	increased hematopoiesis	8 4 0 0 (16) (8) (0) (0)	10 2 0 0 (20) (4) (0) (0)	9 3 0 0 (18) (6) (0) (0)	7 3 0 0 (15) (6) (0) (0)
	myelofibrosis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (2) (0) (0)
lymph node	inflammatory infiltration	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
spleen	congestion	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<50> 0 0 0 0 (0) (0) (0) (0)
	deposit of hemosiderin	1 0 0 0 (2) (3) (3)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	fibrosis:focal	0 0 0 0 0 (0) (0)	1 0 1 0	1 0 0 0 (2) (0) (0)	1 0 0 0 0 (2) (3) (4)

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

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

b: Number of animals with lesion b

(c) c : b / a * 100

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

: MALE SEX

PAGE: 6

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
Organ	Findings		4+ 1+ 2+ 3+ 4+ %) (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Hematopoi	etic system)				
spleen	extramedullary hematopoiesis	<50> 13 5 0 (26) (10) (0) ((50) 0 19 1 0 0 0) (38) (2) (0) (0)	<50> 16 5 0 0 (32) (10) (0) (0)	<50> 8 4 0 0 (16) (8) (0) (0)
(Circulator	y system)				
neart	thrombus	<50> 0 0 0 (0) (0) (0) (<pre></pre>	<50> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	inflammatory infiltration	0 0 0 (0) (0) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)
	myocardial fibrosis	38 1 0 (76) (2) (0) (0 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	41 0 0 0 (82) (0) (0) (0)	34 1 0 0 (68) (2) (0) (0)
Digestive	system)				
ongue	squamous cell hyperplasia	<50> 0 0 0 (0) (0) (0) (<50> 0 0 0 0 0 0) (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)
Grade < a > b (c) Significant	1+: Slight 2+: Moderate a: Number of animals examined at t b: Number of animals with lesion c: b / a * 100 cdifference; *: P ≤ 0.05 **:				

(HPT150)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX : MALE PAGE: 7

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1+ 2+ 3+ 4+ (%) (%) (%)	444 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Digestive sy	steml				
esophagus	inflammatory infiltration	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
stomach	inflammatory infiltration	<50> 1 0 0 0 (2) (0) (0) (0)	<pre></pre>	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	intestinal metaplasia	2 0 0 0 (4) (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)
	ulcer:forestomach	4 0 0 0 (8) (0) (0)	1 2 0 0 (2) (4) (0) (0)	2 2 0 0 (4) (4) (0) (0)	1 0 0 0 (2) (0) (0)
	hyperplasia:forestomach	2 2 1 0 (4) (4) (2) (0)	2 1 0 0 (4) (2) (0) (0)	5 2 1 0 (10) (4) (2) (0)	15 8 0 0 ** (30) (16) (0) (0)
	erosion:glandular stomach	3 1 0 0 (6)(2)(0)(0)	5 0 0 0 (10) (0) (0) (0)	4 1 0 0 (8) (2) (0) (0)	5 1 0 0 (10) (2) (0) (0)
	ulcer:glandular stomach	0 1 0 0 (0) (0) (0)	1 0 0 0 (2) (0) (0)	0 1 0 0 (0) (2) (0) (0)	0 0 0 0 0 (0) (0) (0)
	hyperplasia:glandular stomach	8 0 0 0 (16) (0) (0) (0)	8 0 0 0 0 (16) (0) (0)	3 0 0 0 0 (6) (6) (7)	5 3 0 0 (10) (6) (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 b

⁽c) c : b / a * 100

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX : MALE PAGE: 8

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1+ 2+ 3+ 4+	444 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Digestive sys	stem)				
stomach	mineralization:glandular stomach	\(\langle 50 \rangle \) 1	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
small intes	ulcer	<50> 1 0 0 0 (2) (0) (0) (0)	<pre></pre>	(50) 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
large intes	hemorrhage	<50> 0 0 0 0 0 0 0 0 0 0 0	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
liver	herniation	<50> 4 0 0 0 (8) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)	<50> 4 0 0 0 (8) (0) (0) (0)	<50> 7 0 0 0 (14) (0) (0) (0)
	necrosis:central	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 (4) (0) (0) (0)
	fatty change:peripheral	0 0 1 0 (0) (2) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	inflammatory infiltration	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 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 \leq 0.05 ** : P \leq 0.01 Test of Chi Square

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX

: MALE

PAGE: 9

	Group Name Control		444 ppm			1	1333 ppm				4000 ppm 50							
Findings	Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)			4+ (%)	1+ (%)		+ 3+	4+ (%)		1+ (%)	2+ (%)	3+ (%)	4+ (%)
stem)																		
lymphocytic infiltration	(1 2)	0	0	0 (0)	0 (0)	(0)	50> 0 (0)	0 (0)	0 (0)			0 (0)	(0 0) (0	0	0 (0)
granulation	(2 4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	(0)	0 (0)	2 (4)	(0)	0 (0)	0 (0)	(0 (0 0)	0 (0)	0 (0)
inflammatory cell nest	(2 4)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	2 (4)	(0)	0 (0)	0 (0)	(0 0) (0	0 (0)	0 (0)
extramedullary hematopoiesis	(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)
clear cell focus	(0	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	(0)	0 (0)	0 (0)	(0 0) (0 0)	0 (0)	0 (0)
acidophilic cell focus	(10 20)	2 (4)	0 (0)	0 (0)	6 (12)	4 (8)	0 (0)	0 (0)	8 (16)	(4)	0 (0)	0 (0)	(1	5 [°] 10) (2 4)	0 (0)	0 (0)
basophilic cell focus	(1 2)	0 (0)	0 (0)	0 (0)	3 (6)	0 (0)	0 (0)	0 (0)	4 (8)	(0)	0 (0)	0 (0)	(2 4) (0	0 (0)	0 (0)
spongiosis hepatis	ſ	1 2)	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)
	lymphocytic infiltration granulation inflammatory cell nest extramedullary hematopoiesis clear cell focus acidophilic cell focus basophilic cell focus	Findings Grade Findings Grade System Grade Findings Grade Findings Grade Findings Grade Findings Grade	Findings (%) Iymphocytic infiltration 1 granulation 2 granulation 2 inflammatory cell nest 2 extramedullary hematopoiesis 0 clear cell focus 0 clear cell focus 10 acidophilic cell focus 10 basophilic cell focus 1 spongiosis hepatis 1	Grade	Findings	Stem Crade	Stem Crade	Standard 1+ 2+ 3+ 4+ 1+ 2+ 3+ 4+ 1+ 2+ 3+ 4+ 1+ 2+ 3+ 4+ 3+ 3+ 4+ 3+ 3+ 4+ 3+ 3+ 4+ 3+ 3+ 3+ 4+ 3+ 3+ 4+ 3+ 3+ 3+ 3+ 3+ 3+ 3+ 3+ 3+ 3+ 3+ 3+ 3+	Findings	Stem Crade	State 1+ 2+ 3+ 4+ 1+ 2+ 3+ 4+ 1+ 2+ 3+ 4+ 1+	Grade	State	Stem	Stem	Findings	Stem	Findings

Grade 1+ : Slight

2+ : Moderate

3+ : Marked

4+ : Severe

< a >

a : Number of animals examined at the site

b : Number of animals with lesion b (c)

c : b / a * 100

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

SEX

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCriCrij [F344/DuCrj]

REPORT TYPE : A1 : MALE ALL ANIMALS (0-105W)

4000 ppm Group Name Control 444 ppm 1333 ppm 50 50 No. of Animals on Study 50 2+ 3+ 1+ 2+ 3+ Grade 1+ 2+ 3+ 1+ 2+ 3+ (%) (%) (%) (%) (%) (%) (%) (%) (%) Findings (%) (%) (%) (%) (%) Organ (Digestive system) liver **<50>** <50> bile duct hyperplasia 19 0 0 0 12 0 0 0 16 0 0 0 12 0 0 (24) (0) (0) (0) (32) (0) (0) (0) (24) (0) (0) (0) (38) (0) (0) (0) cholangiofibrosis 0 0 0 0 0 0 0 0 1 0 0 (2) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) <50> ⟨50⟩ <50> <50> pancreas 6 0 0 0 atrophy 0 0 (6) (2) (0) (0) (4) (2) (0) (0) (8) (0) (0) (0) (12) (0) (0) (0) acidophilic cell focus (0)(0)(0)(0) (0)(0)(0)(0) (2) (0) (0) (0) (0)(0)(0)(0) islet cell hyperplasia 2 1 0 0 1 0 0 (2) (0) (0) (0) (4) (2) (0) (0) (0)(2)(0)(0) (2) (0) (0) (0) {Urinary system} kidney **<50>** cyst 0 0 0 0 0 0 0 1 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (2) (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 b: Number of animals with lesion (c) c:b/a * 100

(HPT150)

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1+ 2+ 3+ 4+ (%) (%) (%)	444 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%)
{Urinary syste	ет}				
kidney	scar	<50> 1 0 0 0 { 2} (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 2 0 0 (0) (4) (0) (0)
	chronic nephropathy	13 24 9 0 (26) (48) (18) (0)	13 25 9 0 (26) (50) (18) (0)	9 · 22 12 1 (18) (44) (24) (2)	15 25 5 1 (30) (50) (10) (2)
	mineralization:cortex	1 0 0 0 (2) (3) (4)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	glomerulosclerosis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0)
urin bladd	dilatation	<50> 0 1 0 0 (0) (2) (0) (0)	<50> 0 2 0 0 (0) (4) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	inflammation	1 0 0 0 0 (2) (3) (4)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	simple hyperplasia:transitional epith	elium 0 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0)
(Endocrine sys	stem)				
pituitary	angiectasis	<49> 0 0 0 0 0 0 0 0 0 0 0	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 1 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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

: RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

ANIMAL

SEX : MALE

Group Name 444 ppm 1333 ppm 4000 ppm Control No. of Animals on Study 50 50 50 Grade 2+ 2+ 3+ 2+ 3+ 4+ 2+ 3+ 1+ 3+ (%) (%) (%) (%) (%) Organ Findings (%) (%) (%) (%) (%) (%) (%) (%) (%) (Endocrine system) **〈49**〉 <50> <50> pituitary 0 0 0 0 0 3 1 0 0 1 1 0 0 cyst (4) (0) (0) (0) (6) (0) (0) (0) (6) (2) (0) (0) (2) (2) (0) (0) hyperplasia 10 5 1 0 6 8 9 3 3 0 (12) (16) (6) (0) (22) (14) (6) (0) (20) (10) (2) (0) (18) (6) (6) (0) Rathke pouch (6) (0) (0) (0) (0)(0)(0)(0) (4) (2) (0) (0) (2) (2) (0) (0) ⟨50⟩ <50> ⟨50⟩ thyroid follicular hyperplasia 0 0 0 0 0 0 0 0 0 (0)(2)(0)(0) (0)(0)(0)(0) (2) (0) (0) (0) (0)(0)(0)(0) C-cell hyperplasia 0 2 1 1 (16) (6) (6) (0) (12) (4) (4) (0) (8) (10) (0) (0) (4) (2) (2) (0) adrenal <50> <50> <50> <50> mineralization 0 0 0 (0) (2) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) inflammatory infiltration (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (2) (0) (0) (0)

3+ : Marked Grade 1+ : Slight 2+ : Moderate 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; $*: P \le 0.05$ **: $P \le 0.01$ Test of Chi Square

(HPT150)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
0rgan	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Endocrine sy	stem}				
adrenal	hyperplasia:cortical cell	3 0 2 0 (6) (0) (4) (0)	(50) 0 1 1 0 (0) (2) (2) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 1 2 0 0 (2) (4) (0) (0)
	hyperplasia:medulla	0 3 0 0 (0) (0)	2 4 0 0 (4) (8) (0) (0)	2 4 0 0 (4) (8) (0) (0)	2 3 0 0 (4) (6) (0) (0)
	focal fatty change:cortex	2 0 0 0 (4) (4) (6) (7)	2 1 0 0 (4) (2) (0) (0)	1 1 0 0 (2) (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
{Reproductive	system)				
testis	mineralization	<50> 3 0 0 0 (6) (0) (0) (0)	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 4 0 0 0 (8) (0) (0) (0)
	inflammation	0 0 0 0 0 (0) (0)	3 1 0 0 (6) (2) (0) (0)	3 0 0 0 0 (6) (6) (7)	1 0 0 0 0 (2) (0) (0)
	interstitial cell hyperplasia	10 1 0 0 (20) (2) (0) (0)	9 1 0 0 (18) (2) (0) (0)	8 1 0 0 (16) (2) (0) (0)	6 0 0 0 0 (12) (0) (0) (0)
prostate	inflammation	50> 5 2 0 0 (10) (4) (0) (0)	3 0 0 0 (6) (0) (0) (0)	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 2

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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX : MALE

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
)rgan	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%)
(Reproductive	e system)				
prostate	lymphocytic infiltration	\(\langle 50 \rangle \) 1	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	hyperplasia	4 0 0 0 0 (8) (8) (0) (0)	4 0 0 0 0 (8) (9) (9)	1 1 0 0 (2) (2) (0) (0)	0 1 0 0 (0) (0)
mammary gl	galactocele	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)
(Nervous syst	tem)				
brain	hemorrhage	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 1 0 (0) (0) (2) (0)
(Special sens	se organs/appendage)				
eye	atrophy	<50> 0 0 1 0 (0) (0) (2) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
<a>> b (c)	1+: Slight 2+: Moderate a: Number of animals examined at b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **				

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX : MALE

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
Organ	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Special sens	se organs/appendage}				
eye	cataract	\(\langle 50 \rangle \) 3 1 0 0 (6) (2) (0) (0)	<50> 4 1 0 0 (8) (2) (0) (0)	3 0 0 0 (6) (0) (0) (0)	<50> 2 3 0 0 (4) (6) (0) (0)
	retinal atrophy	23 3 1 0 (46) (6) (2) (0)	25 1 1 0 (50) (2) (2) (0)	32 3 0 0 (64) (6) (0) (0)	30 3 1 0 (60) (6) (2) (0)
	keratitis	3 1 0 0 (6) (2) (0) (0)	1 0 0 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	iritis	1 0 0 0 (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)
Harder gl	degeneration	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)
	lymphocytic infiltration	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)
	hyperplasia	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 (0) (0)
(Musculoskele	etal system)				
bone	osteosclerosis	<50> 0 0 0 0 (0) (0) (0) (0)	<49> 1 0 0 0 (2) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<pre></pre>

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 ; * : $P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX

: MALE

PAGE: 16

		Group Name No. of Animals on St		ontrol 5	0			4	44 ppm 5			13	33 pr	om 50			4	000 p	opm 50		
Organ	Findings	Grade	1+ (%)	2+ (%)	3+			1+ (%)	2+ (%)	3+ (%)		1+ %)	2+ (%)			4+ (%)	1+ (%)		ł	3+ (%)	4+ (%)
(Body cavitie	lze																				
peritoneum	peritonitis		0 (0)	<5 0 (0)	(0)	0 (0)	(0 0)	(5) (0)	0> 0 (0)	(0 0) ((5 0 0)) (0 0)	0 0)	0 (0)	(50> (0 0) (0 0)
Grade (a > b (c)	1+: Slight 2+: Moderate 3 a: Number of animals examined at the b: Number of animals with lesion c: b / a * 100		Severe	***************************************	***************************************	***************************************					 										
Significant d	lifference;	≤ 0.01 Test of Chi	Squar	e							 						 				

(HPT150)

BA1S5

TABLE L 2

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

MALE: DEAD AND MORIBUND ANIMALS

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

REPORT TYPE : A1 SEX : MALE DEAD AND MORIBUND ANIMALS (0-105W)

JEA .	W/16 L				,,,,,
rgan		Group Name Control No. of Animals on Study 11 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 14 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 14 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 9 1+ 2+ 3+ 4+ (%) (%) (%)
Respiratory	system}				
asal cavit	thrombus	<pre></pre>	<14> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<14> 1 0 0 0 (7) (0) (0) (0)	<pre></pre>
	mineralization	8 0 0 0 (73) (0) (0) (0)	6 0 0 0 0 (43) (0) (0) (0)	6 0 0 0 (43) (0) (0) (0)	3 0 0 0 0 (38) (0) (0) (0)
	rhinitis	1 1 0 0 (9) (9) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	eosinophilic change:olfactory epitheli	um 6 0 0 0 (55) (0) (0) (0)	9 2 0 0 (64) (14) (0) (0)	5 2 1 0 (36) (14) (7) (0)	5 1 0 0 (63) (13) (0) (0)
	eosinophilic change:respiratory epithe	1 0 0 0 (9) (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (14) (0) (0) (0)	0 0 0 0 0 (0) (0)
	inflammation:foreign body	1 1 0 0 (9) (9) (0) (0)	3 2 1 0 (21) (14) (7) (0)	3 0 0 0 (21) (0) (0) (0)	4 1 0 0 (50) (13) (0) (0)
	inflammation:respiratory epithelium	1 0 0 0 (9) (9) (0) (0)	1 0 0 0 (7) (0) (0)	1 0 0 0 (7) (0) (0)	0 0 0 0 0 (0) (0)
	respiratory metaplasia:olfactory epith	elium 1 0 0 0 (9)(0)(0)(0)	4 0 0 0 (29) (0) (0) (0)	2 0 0 0 0 (14) (0) (0) (0)	2 0 0 0 (25) (0) (0) (0)

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

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

b b: Number of animals with lesion

c : b / a * 100

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1 SEX

: MALE

	Group Name Control No. of Animals on Study 11	444 ppm 14	1333 ppm 14	4000 ppm 9
Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
system)				
respiratory metaplasia:gland	\(\langle 11 \rangle \) \(9 0 0 \\ (82) (0) (0) (0) \)	14 0 0 0 (100) (0) (0) (0)	13 0 0 0 (93) (0) (0) (0)	<pre></pre>
ulcer:respiratory epithelium	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (13) (0) (0) (0)
necrosis:olfactory epithelium	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (7) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)
inflammatory infiltration	<11>> 1 0 0 0 (9) (0) (0) (0)	<14> 0 0 0 0 (0) (0) (0) (0)	<14> 1 0 0 0 (7) (0) (0) (0)	<pre></pre>
congestion	<11> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<14> 1 0 0 0 (7) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<pre></pre>
hemorrhage	1 1 0 0 (9) (9) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
inflammatory infiltration	1 1 0 0 (9) (9) (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 0 (7) (0) (0)	0 1 0 0 (0) (11) (0) (0)
- :	respiratory metaplasia:gland ulcer:respiratory epithelium necrosis:olfactory epithelium inflammatory infiltration congestion	No. of Animals on Study	No. of Animals on Study	No. of Animals on Study

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

a : Number of animals examined at the site b : Number of animals with lesion < a >

b

⁽c) c:b/a * 100

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

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

SEX : MALE PAGE: 3

		Group Name No. of Animals on Stud		ntrol 11			4	44 ppm 1			13	33 ppr 14			400	mqq (
Organ	Findings	Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%) (4+ (%)
(Respiratory	system)																	
lung	bronchopneumonia	(0 (<11 0 0) (> 0 0)	0 (0)	0 (0)	<1 0 (0)	4> 0 (0)	0 (0)	0 (0) (<14 0 0)	1> 0 (0)	0 (0)	0 (0) (< 9> 0 0) (1	1 1) (0 0)
	uremic pneumonitis	ţ	0 (0 0) (0	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0) (0 0)	0 (0)	0 (0)	0 (0) (0 0) (0 0) (0 0)
(Hematopoleti	c system)																	
oone marrow	congestion	(0 (<11 0 0) (> 0 0)	0 (0)	0 (0)	<1: 0 (0)	4> 0 (0)	0 (0)	1 (7) (<14 0 0)	1> 0 (0)	0 (0)	0 (0) (< 8> 0 0) (0 0) (0 0)
	increased hematopoiesis	ţ	1 9) (3 27) (0 0)	0 (0)	1 (7)	2 (14)	0 (0)	0 (0)	4 (29) (2 14)	0 (0)	0 (0)	3 (38) (3	2 25) (O D) (0 0)
pleen	deposit of hemosiderin	ť	1 9) (<11. 0 0) (0	0 (0)	0 (0)	<1: 0 (0)	4> 0 (0)	0 (0)	0 (0) (<14 0 0)	(0)	0 (0)	0 (0) (< 9> 0 0) (o o) (0 0)
	fibrosis:focal	(0 (0 0) (0 0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	0 (0) (0 0)	0 (0)	0 (0)	0 (0) (0 0) (0 0) (0 0)

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

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

b b: Number of animals with lesion

⁽c) c : b / a * 100

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

PAGE: 4

		Group Name No. of Animals on Study	Contr	ol 11			44	14 ppm 14			1	333	opm 14				400	1qq 00	m 9		
Organ	Findings		+ 2	+	3+ (%)	4+ (%)	1+ (%)	2+	3+ (%)	4+ (%)	1+	2· (%)	+	3+ %)	4+ (%)	1 (%	+	2+ (%)	3+ (%)		4+ (%)
(Hematopoiet	ic system)																				
spleen	extramedullary hematopoiesis	(9	1 3 9) (27	<11>) (0 0) (0 0)	5 (36)	<14 1 (7)	0 (0)	0 (0)	2 (14)	4 (29)	(14)	0 0) (0 0)	0 (0) (3 33)	3> 0 (0)	(0 0)
{Circulatory	system)																				
neart	thrombus	(() ()) ((<11>	0 0) (0 0)	0 (0)	<14 0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	(14>	0 0) (0 0)	2 (22	: :) (< 9 0 0)	(0) (0)	(0 0)
	inflammatory infiltration	(() () (0 0) (0 0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	(0)	- (0 0) (0 0)	1 (11) (0 0)	0 (0)	(0 0)
	myocardial fibrosis	11 (100) (C) (0 0) (0 0)	13 (93)	0 (0)	0 (0)	0 (0)	11 (79)	(0)	(0 0) (0 0)	5 (56	;) (1 11)	0 (0)	(0 × 0)
{Digestive s	ystem)																				
stomach	intestinal metaplasia	(() ()) ((<11>) (0 (0)	0 0)	0 (0)	<14 0 (0)	> 0 (0)	0 (0)	1 (7)	0 (0)	(14)	0 0) (0 0)	0 (0) (< 9 0 0)	9> 0 (0)	(0 0)

b

b : Number of animals with lesion

(c)

c:b/a * 100

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] REPORT TYPE : A1

SEX : MALE

Group Name 444 ppm 1333 ppm 4000 ppm Control 9 No. of Animals on Study 14 11 Grade 1+ 2+ 3+ 2+ 3+ 2+ 3+ 2+ 3+ 4+ (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) Organ__ (%) Findings_ (Digestive system) (11) (14) <14> < 9> stomach ulcer: forestomach 4 0 0 0 1 2 0 0 1 2 0 0 0 0 0 (36) (0) (0) (0) (7) (14) (0) (0) (7) (14) (0) (0) (11) (0) (0) (0) hyperplasia:forestomach 2 1 1 0 1 0 0 0 2 1 1 0 3 4 0 (18) (9) (9) (0) (7) (0) (0) (0) (14) (7) (7) (0) (33) (44) (0) (0) erosion:glandular stomach 2 1 0 0 3 0 0 0 2 1 0 2 1 0 0 (18) (9) (0) (0) (21) (0) (0) (0) (14) (7) (0) (0) (22) (11) (0) (0) ulcer:glandular stomach 0 1 0 0 1 0 0 0 0 1 0 0 0 0 0 (0)(9)(0)(0) (7) (0) (0) (0) (0) (7) (0) (0) (0)(0)(0)(0) hyperplasia:glandular stomach 1 0 0 0 0 0 (9) (0) (0) (0) (7) (0) (0) (0) (14) (0) (0) (0) (0) (0) (0) (0) mineralization:glandular stomach (0)(0)(0)(0) (0)(0)(0)(0) (9) (0) (0) (0) (0)(0)(0)(0) <14> <14> large intes ⟨11⟩ < 9> 0 1 0 0 0 0 hemorrhage 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0) (7) (0) (0) (0)(0)(0)(0) liver <11> <14> <14> 1 0 0 0 herniation 1 0 0 0 1 0 0 0 1 0 0 0 (7) (0) (0) (0) (7) (0) (0) (0) (11) (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 b: Number of animals with lesion

⁽c) c:b/a * 100

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

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCr[Cr[][F344/DuCr]]
REPORT TYPE : A1

SEX

: MALE

DEAD AND MORIBUND ANIMALS (0-105W)

PAGE: 6

Grade	nimals on Study 11 1+ 2+ 3+ 4+ (%) (%) (%) (%)	14 1+ 2+ 3+ 4+ (%) (%) (%) (%)	14 1+ 2+ 3+ 4+ (%) (%) (%) (%)	9 1+ 2+ 3+ 4+ (%) (%) (%) (%)
	<11> 0 0 0 0 0 0 0 0 0 0 0 0	\(\langle 14 \rangle \) \(0 0 0 0 \\ (0) (0) (0) (0) \)	(14) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
pheral	0 0 1 0 (0) (9) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (7) (0) (0)	0 0 0 0 0 (0) (0)
Itration	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (11) (0) (0)
	1 0 0 0 (9) (0) (0)	1 0 0 0 (7) (0) (0)	2 0 0 0 (14) (0) (0) (0)	0 0 0 0 0 (0) (0)
matopoiesis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 (11) (0) (0)
s	1 0 0 0 (9) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
asia	0 0 0 0 0 (0) (0)	2 0 0 0 (14) (0) (0) (0)	1 0 0 0 0 (7) (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 0 0 0 (7) (0) (0) (0)	0 0 0 0 (0) (0)
i	ipheral iltration ematopoiesis is	(0) (0) (0) (0) (0) (1	inheral (0) (0) (0) (0) (0) (0) (0) (0

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

 ^{\[} a \rightarrow
 \]
 \[
 a : Number of animals examined at the site
 \]

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCriCrij[F344/DuCrj] DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE

Group Name Control 444 ppm 1333 ppm 4000 ppm

		Group Name Control No. of Animals on Study 11	444 ppm	1333 ppm 14	4000 ppm
Organ	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)	14 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Digestive s)	vstem)				
pancreas	atrophy	<11> 0 0 0 0 (0) (0) (0) (0)	<14> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	<pre></pre>
(Urinary syst	t em}				
kidney	chronic nephropathy	3 1 3 0 (27) (9) (27) (0)	<14> 7 4 0 0 (50) (29) (0) (0)	3 5 1 1 (21) (36) (7) (7)	<pre></pre>
	mineralization:cortex	1 0 0 0 (9) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	glomerulosclerosis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (11) (0) (0) (0)
urin bladd	dilatation	<11> 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>	0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	inflammation	1 0 0 0 (9) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)
	inflammation	1 0 0 0 (9) (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

 ^{\[} a : Number of animals examined at the site
 \]

b b: Number of animals with lesion

⁽c) c:b/a + 100

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

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj] HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE PAGE: 8

Organ	N	roup Name Control o. of Animals on Study 11 rade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 14 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 14 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 9 1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Urinary syst	t em)				
urin bladd	simple hyperplasia:transitional epithel	ium	<14> 0 0 0 0 (0) (0) (0) (0)	<14> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
(Endocrine sy	vstem}				
pituitary	cyst	<11> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(14) 1 0 0 0 (7) (0) (0) (0)	2 1 0 0 (14) (7) (0) (0)	<pre></pre>
	hyperplasia	0 0 0 0 0 (0) (0)	1 1 0 0 (7) (7) (0) (0)	1 2 0 0 (7) (14) (0) (0)	0 1 0 0 (0) (11) (0) (0)
	Rathke pouch	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (11) (0) (0)
thyroid	C-cell hyperplasia	<11> 2 0 0 0 (18) (0) (0) (0)	<14> 1 0 1 0 (7) (0) (7) (0)	<14> 0 2 0 0 (0) (14) (0) (0)	<pre></pre>
adrenal	inflammatory infiltration	<11> 0 0 0 0 0 0 0 0 0 0 0	<14> 0 0 0 0 (0) (0) (0) (0)	<14> 0 0 0 0 0 0 0 0 0 0 0 0	<pre></pre>

3+ : Marked 1+: Slight 2+: Moderate 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 ; * : $P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

: RAT F344/DuCrlCrlj[F344/DuCrj]

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1 SEX : MAL

ANIMAL

: MALE PAGE : 9

	Group Name Control	444 ppm	1333 ppm	4000 ppm 9
Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
stem)				
hyperplasia:cortical cell	<11> 0 0 1 0 0 0 (0) (9) (0)	<14> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<14> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
hyperplasia:medulla	0 0 0 0 0 (0) (0)	0 2 0 0 (0) (14) (0) (0)	0 1 0 0 (0) (0)	0 0 0 0 0 (0) (0)
focal fatty change:cortex	1 0 0 0 (9) (0) (0) (0)	0 1 0 0 (0) (7) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
system)				
mineralization	<11> 2 0 0 0 (18) (0) (0) (0)	2 0 0 0 (14) (0) (0) (0)	<14> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
inflammation	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (7) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (11) (0) (0)
interstitial cell hyperplasia	4 0 0 0 0 (36) (36) (0) (0)	1 1 0 0 (7) (7) (0) (0)	5 1 0 0 (36) (7) (0) (0)	3 0 0 0 (33) (0) (0) (0)
inflammation	3 2 0 0 (27) (18) (0) (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 hyperplasia:medulla focal fatty change:cortex system) mineralization inflammation interstitial cell hyperplasia	No. of Animals on Study	No. of Animals on Study	No. of Animals on Study

Grade 1+: Slight 2+: Moderate

\[
 a : Number of animals examined at the site
 \]

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

3+ : Marked

4+ : Severe

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : MALE PAGE: 10

Organ	Findings	Group Name Control No. of Animals on Study 11 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 14 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 14 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 9 1+ 2+ 3+ 4+ (%) (%) (%) (%)
,	111111111111111111111111111111111111111	Yes (in) Yes Yes	(4) (4)		
{Reproductiv	e system)				
ammary gl	galactocele	<11> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	\(\langle 14 \rangle \) \(1 0 0 \\ (7) (0) (0) (0) \)	0 0 0 0 (0) (0) (0) (0)
Nervous sys	teml				
rain	hemorrhage	<11> 1 0 0 0 (9) (0) (0) (0)	<pre></pre>	<14> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
Special sen	se organs/appendage)				
ye	atrophy	\(\langle 11 \rangle \) \(0 0 1 0 \\ (0) (9) (0) \)	<14> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<14> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	cataract	1 0 0 0 (9) (0) (0) (0)	1 0 0 0 (7) (0) (0)	1 0 0 0 (7) (0) (0) (0)	0 0 0 0 0 (0) (0)
	retinal atrophy	2 2 0 0 (18) (18) (0) (0)	2 0 0 0 (14) (0) (0) (0)	3 1 0 0 (21) (7) (0) (0)	1 0 0 0 (11) (0) (0) (0)

1+ : Slight

2+ : Moderate

3+ : Marked

4+ : Severe

a : Number of animals examined at the site b : Number of animals with lesion

b

c : b / a * 100

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

DEAD AND MORIBUND ANIMALS (0-105W)

SEX

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 : MALE

Organ	Findings	Group Name Control No. of Animals on Study 11 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 14 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 14 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 9 1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Special sens	e organs/appendagel				
еуе	keratitis	\(\lambda 11 \rangle \) \[1	1 0 0 0 (7) (0) (0) (0)	\(\langle 14 \rangle \) \[1 0 0 \\ (7) (0) (0) (0) \]	<pre></pre>
	iritis	1 0 0 0 0 (9) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
Harder gl	degeneration	(11) 1 0 0 0 (9) (0) (0) (0)	<pre></pre>	\(\langle 14 \rangle \) 1	<pre></pre>
	hyperplasia	0 0 0 0 0 (0) (0)	1 0 0 0 (7) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
(Musculoskele	tal system}				
bone	osteosclerosis	<pre></pre>	<14> 0 0 0 0 (0) (0) (0) (0)	\(\langle 14 \rangle \) \(1 0 0 \\ (7) (0) (0) (0) \)	<pre></pre>
(Body cavitie	s}				
peritoneum	peritonitis	<11> 0 0 0 0 (0) (0) (0) (0)	<14> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<14> 0 0 1 0 (0) (0) (7) (0)	<pre></pre>
<a>> b (c)	1+: Slight 2+: Moderate 3+ a: Number of animals examined at the s b: Number of animals with lesion c: b / a $*$ 100 ifference; $*$: P \leq 0.05 $**$: P \leq				

TABLE L 3

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

MALE: SACRIFICED ANIMALS

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX

: MALE

PAGE: 1

		Group Name Control	444 ppm 36	1333 ppm	4000 ppm 41			
Organ	Findings	No. of Animals on Study 39 Grade 1+ 2+ 3+ 4+	1+ 2+ 3+ 4+ (%) (%) (%) (%)	36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)			
{Integumentar	y system/appandage}							
skin/app	erosion	(39) 0 0 0 0 (0) (0) (0) (0)	<36> 0 0 0 0 (0) (0) (0) (0)	<36> 0 0 0 0 (0) (0) (0) (0)	<41> 1 0 0 0 (2) (0) (0) (0)			
	scab	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (6) (6) (0) (0)	0 0 0 0 0 (0) (0)			
subcutis	cyst	39> 1 0 0 0 (3) (0) (0) (0)	36> 0 0 0 0 (0) (0) (0) (0)	36> 0 0 0 0 0 0 0 0	<pre></pre>			
	abscess	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0)			
(Respiratory	system)							
nasal cavit	thrombus	39> 1 0 0 0 (3) (0) (0) (0)	35> 1 0 0 0 (3) (0) (0) (0)	36> 0 0 0 0 (0) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)			
	mineralization	25 0 0 0 (64) (0) (0) (0)	19 0 0 0 (54) (0) (0) (0)	27 0 0 0 (75) (0) (0) (0)	23 0 0 0 (58) (0) (0) (0)			

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

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

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

b b : Number of animals with lesion

⁽c) c : b / a * 100

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX : MALE

Organ	Group No. c Grade Findings	f Animals on Study 39	444 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 41 1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Respiratory	system)				
nasal cavit	eosinophilic change:olfactory epithelium	<pre></pre>	<35> 26 8 0 0 (74) (23) (0) (0)	<36> 27	<pre></pre>
	eosinophilic change:respiratory epithelium	8 0 0 0 (21) (0) (0) (0)	6 0 0 0 (17) (0) (0) (0)	1 0 0 0 *	7 0 0 0 (18) (0) (0) (0)
	inflammation:foreign body	18 2 0 0 (46) (5) (0) (0)	6 3 0 0 * (17) (9) (0) (0)	22 3 0 0 (61) (8) (0) (0)	11 1 0 0 (28) (3) (0) (0)
	inflammation:respiratory epithelium	10 0 0 0 0 (26) (0) (0) (0)	10 1 0 0 (29) (3) (0) (0)	5 0 0 0 (14) (0) (0) (0)	9 0 0 0 0 (23) (0) (0) (0)
	inflammation:olfactory epithelium	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0)
	respiratory metaplasia:olfactory epithelium	10 0 0 0 0 (26) (0) (0)	6 0 0 0 (17) (0) (0) (0)	7 1 0 0 (19) (3) (0) (0)	5 0 0 0 (13) (0) (0) (0)
	respiratory metaplasia:gland	38 0 0 0 (97) (0) (0) (0)	35 0 0 0 (100) (0) (0) (0)	35 1 0 0 (97) (3) (0) (0)	39 1 0 0 (98) (3) (0) (0)
	hyperplasia:transitional epithelium	1 0 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj] SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : MALE

Organ	Findings	Group Name Control No. of Animals on Study 39 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 41 1+ 2+ 3+ 4+ (%) (%) (%)
{Respiratory	system)				
larynx	inflammatory infiltration	<39> 2 0 0 0 (5) (0) (0) (0)	<36> 1 0 0 0 (3) (0) (0) (0)	<36> 1 0 0 0 (3) (0) (0) (0)	<41> 0 0 0 0 0 0 0 0 0 0 0 0
trachea	inflammatory infiltration	<39> 0 0 0 0 (0) (0) (0) (0)	36> 0 0 0 0 (0) (0) (0) (0)	36> 1 0 0 0 (3) (0) (0) (0)	<pre></pre>
lung	inflammatory infiltration	<pre></pre>	36> 1 0 0 0 (3) (0) (0) (0)	36> 2 0 0 0 (6) (0) (0) (0)	<pre></pre>
	accumulation of foamy cells	1 0 0 0 (3) (0) (0)	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)
	bronchiolar-alveolar cell hyperplasia	2 2 2 0 (5) (5) (5) (0)	1 1 1 0 (3) (3) (0)	1 1 1 0 (3) (3) (0)	2 2 0 0 (5) (5) (0) (0)
(Hematopoietic	c system)				
bone marrow	hemorrhage	<39> 0 1 0 0 (0) (3) (0) (0)	<35> 0 0 0 0 (0) (0) (0) (0)	<36> 0 0 0 0 (0) (0) (0) (0)	<40> 0 0 0 0 (0) (0) (0) (0)

a: Number of animals examined at the site
b: Number of animals with lesion < a >

b

⁽c) c : b / a * 100

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

ANIMAL

: RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX : MALE PAGE: 4

		Group Name Control No. of Animals on Study 39	444 ppm 36	1333 ppm 36	4000 ppm 41		
Organ	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)		
(Hematopoieti	c system)						
bone marrow	granulation	(39) 1 0 0 0 (3) (0) (0) (0)	<35> 0 0 0 0 (0) (0) (0) (0)	<36> 1 0 0 0 (3) (0) (0) (0)	<40> 0 0 0 0 (0) (0) (0) (0)		
	increased hematopoiesis	7 1 0 0 (18) (3) (0) (0)	9 0 0 0 0 (26) (0) (0)	5 1 0 0 (14) (3) (0) (0)	4 1 0 0 (10) (3) (0) (0)		
	myelofibrosis	0 0 0 0 0 (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (0)		
lymph node	inflammatory infiltration	<39> 0 0 0 0 (0) (0) (0) (0)	<36> 0 0 0 0 (0) (0) (0) (0)	36> 1 0 0 0 (3) (0) (0) (0)	<41> 0 0 0 0 (0) (0) (0) (0)		
spleen	congestion	(39) 1 0 0 0 (3) (0) (0) (0)	36> 0 0 0 0 (0) (0) (0) (0)	36> 0 0 0 0 (0) (0) (0) (0)	<11> 0 0 0 0 (0) (0) (0) (0)		
	fibrosis:focal	0 0 0 0 0 (0) (0)	1 0 0 0 (3) (0) (0)	1 0 0 0 0 (3) (0) (0)	1 0 0 0 0 (2) (0) (0)		
	extramedullary hematopoiesis	12 2 0 0 (31) (5) (0) (0)	14 0 0 0 (39) (0) (0) (0)	14 1 0 0 (39) (3) (0) (0)	8 1 0 0 (20) (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; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

: RAT F344/DuCrlCrlj[F344/DuCrj]

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

ANIMAL

SEX : MALE

OTT (CONTINUED MICHINES

Group Name 444 ppm 1333 ppm 4000 ppm Control 36 36 No. of Animals on Study 2+ 3+ 4+ 2+ 3+ 2+ 3+ 2+ 3+ Findings_ (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) Organ_ (Circulatory system) ⟨39⟩ <36> heart myocardial fibrosis 1 0 0 (69) (3) (0) (0) (92) (0) (0) (0) (83) (0) (0) (0) (71) (0) (0) (0) (Digestive system) tongue squamous cell hyperplasia 0 0 0 0 0 0 0 0 0 0 0 0 (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) (2) (0) (0) (0) esophagus <39> <36> ⟨36⟩ **<41>** 0 0 0 0 0 inflammatory infiltration (3) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) ⟨39⟩ <36> <36> **<41>** stomach inflammatory infiltration 0 0 0 0 (3) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) (0)(0)(0)(0) intestinal metaplasia (0)(0)(0)(0) (5) (0) (0) (0) (0)(0)(0)(0) (0)(0)(0)(0) ulcer:forestomach (0)(0)(0)(0) (0)(0)(0)(0) (3) (0) (0) (0) (0)(0)(0)(0)

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

: RAT F344/DuCrlCrlj[F344/DuCrj]

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

SEX

ANIMAL

REPORT TYPE : A1 : MALE

Organ	Findings	Group Name Control No. of Animals on Study 39 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 41 1+ 2+ 3+ 4+ (%) (%) (%)
{Digestive sy	rstomi				
stomach	hyperplasia:forestomach	<39> 0 1 0 0 (0) (3) (0) (0)	<36> 1 1 0 0 (3) (3) (0) (0)	3 1 0 0 (8) (3) (0) (0)	<41> 12 4 0 0 ** (29) (10) (0) (0)
	erosion:glandular stomach	1 0 0 0 (3) (0) (0) (0)	2 0 0 0 0 (6) (6) (0) (0)	2 0 0 0 (6) (6) (0) (0)	3 0 0 0 0 (7) (0) (0) (0)
	hyperplasia:glandular stomach	7 0 0 0 (18) (0) (0) (0)	6 0 0 0 0 (17) (0) (0) (0)	2 0 0 0 (6) (6) (0) (0)	5 3 0 0 (12) (7) (0) (0)
small intes	ulcer	<39> 1 0 0 0 (3) (0) (0) (0)	<36> 0 0 0 0 0 0 0 0 0 0	<36> 1 0 0 0 (3) (0) (0) (0)	<41> 0 0 0 0 0 0 0 0 0 0 0
liver	herniation	39> 3 0 0 0 (8) (0) (0) (0)	<36> 2 0 0 0 (6) (0) (0) (0)	36> 3 0 0 0 (8) (0) (0) (0)	<11> <41> 6 0 0 0 0 (15) (0) (0) (0)
	necrosis:central	1 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	lymphocytic infiltration	1 0 0 0 (3) (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 : Number of animals examined at the site b : Number of animals with lesion < a >

b

⁽c) c:b/a * 100

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: RAT F344/DuCrlCrlj[F344/DuCrj] SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

ANIMAL

SEX : MALE

Organ	Findings	Group Name Control No. of Animals on Study 39 Grade 1+ 2+ 3+ 4+ (%) (%) (%)	444 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 41 1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Digestive s	system)				
liver	granulation	39> 1 0 0 0 (3) (0) (0) (0)	36> 1 0 0 0 (3) (0) (0) (0)	36> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	inflammatory cell nest	2 0 0 0 (5) (0) (0) (0)	2 0 0 0 0 (6) (0) (0)	2 0 0 0 0 (6) (6) (0) (0)	0 0 0 0 0 (0) (0) (0)
	clear cell focus	0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0)	1 0 0 0 (3) (3) (6) (6)	0 0 0 0 0 (0) (0)
	acidophilic cell focus	10 2 0 0 (26) (5) (0) (0)	6 4 0 0 (17) (11) (0) (0)	8 2 0 0 (22) (6) (0) (0)	5 2 0 0 (12) (5) (0) (0)
	basophilic cell focus	1 0 0 0 (3) (0) (0)	3 0 0 0 0 (8) (0) (0)	4 0 0 0 0 (11) (0) (0)	2 0 0 0 0 (5) (0) (0) (0)
	spongiosis hepatis	0 0 0 0 (0) (0)	1 0 0 0 (3) (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	bile duct hyperplasia	19 0 0 0 (49) (0) (0) (0)	10 0 0 0 (28) (0) (0) (0)	15 0 0 0 (42) (0) (0) (0)	12 0 0 0 (29) (0) (0) (0)
pancreas	atrophy	<39> 3 1 0 0 (8) (3) (0) (0)	<36> 2 1 0 0 (6) (3) (0) (0)	<36> 4 0 0 0 (11) (0) (0) (0)	<41> 5 0 0 0 (12) (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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY) SACRIFICED ANIMALS (105W) ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

REPORT TYPE : A1

SEX : MALE

Ougen	Cindina	Group Name Control No. of Animals on Study 39 Grade 1+ 2+ 3+ 4+	444 ppm 36 1+ 2+ 3+ 4+	1333 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 41 1+ 2+ 3+ 4+ (%) (%) (%) (%)
Organ	Findings	(%) (%) (%)	(%) (%) (%) (%)	(%) (%) (%) (%)	(%) (%) (%) (%)
(Digestive s	ystem)				
pancreas	acidophilic cell focus	39> 0 0 0 0 (0) (0) (0) (0)	<36> 0 0 0 0 0 0 0 0 0 0 0	<36> 1 0 0 0 (3) (0) (0) (0)	<41> 0 0 0 0 (0) (0) (0) (0)
	islet cell hyperplasia	1 0 0 0 (3) (0) (0)	2 1 0 0 (6) (3) (0) (0)	0 1 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
(Urinary sys	tem)				
cidney	cyst	39> 0 0 0 0 (0) (0) (0) (0)	<36> 0 0 0 0 (0) (0) (0) (0)	<36> 1 0 0 0 (3) (0) (0) (0)	<41> 1 0 0 0 (2) (0) (0) (0)
	scar	1 0 0 0 (3) (0) (0) (0)	0 0 0 0 0 (0) (0)	. 0 0 0 0 0 (0) (0) (0)	0 2 0 0 (0) (5) (0) (0)
	chronic nephropathy	10 23 6 0 (26) (59) (15) (0)	6 21 9 0 (17) (58) (25) (0)	6 17 11 0 (17) (47) (31) (0)	13 22 5 1 (32) (54) (12) (2)
(Endocrine s	ystem)				
pituitary	angiectasis	<38> 0 0 0 0 (0) (0) (0) (0)	<36> 2 0 0 0 (6) (0) (0) (0)	<36> 0 0 0 0 0 0 0 0 0 0	<pre></pre>

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

SEX

: RAT F344/DuCrlCrlj[F344/DuCrj]

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

ANIMAL : RAT REPORT TYPE : A1

: MALE

Organ	Findings	Group Name Control No. of Animals on Study 39 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 41 1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Endocrine sy	vstem)				
pituitary	cyst	<38> 2 0 0 0 (5) (0) (0) (0)	<36> 2 0 0 0 (6) (0) (0) (0)	<36> 1 0 0 0 (3) (0) (0) (0)	<41> 0 1 0 0 (0) (2) (0) (0)
	hyperplasia	6 8 3 0 (16) (21) (8) (0)	8 2 3 0 (22) (6) (8) (0)	10 5 3 0 (28) (14) (8) (0)	10 4 1 0 (24) (10) (2) (0)
	Rathke pouch	3 0 0 0 0 (8) (0) (0)	0 0 0 0 0 (0) (0)	2 1 0 0 (6) (3) (0) (0)	1 0 0 0 0 (2) (0) (0)
thyroid	follicular hyperplasia	39> 0 0 0 0 (0) (0) (0) (0)	(36> 1 0 0 0 (3) (0) (0) (0)	36> 0 1 0 0 (0) (3) (0) (0)	<pre></pre>
	C-cell hyperplasia	6 3 3 0 (15) (8) (8) (0)	5 2 1 0 (14) (6) (3) (0)	4 3 0 0 (11) (8) (0) (0)	2 1 1 0 (5) (2) (2) (0)
adrenal	mineralization	<39> 0 1 0 0 0 0 (3) (0) (0)	<pre></pre>	36> 0 0 0 0 0 0 0 0	<pre></pre>
	hyperplasia:cortical cell	3 0 1 0 (8) (0) (3) (0)	0 1 1 0 (0) (3) (3) (0)	0 0 0 0 0 (0) (0)	1 2 0 0 (2) (5) (0) (0)

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

 ^{\[} a : Number of animals examined at the site
 \]

b : Number of animals with lesion

⁽c) c:b/a * 100

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

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1 SEX

: MALE

	Ī	Group Name Control Lo. of Animals on Study 39	444 ppm 36	1333 ppm 36	4000 ppm 41		
rgan	Findings	Srade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)		
Endocrine s	system)						
adrena I	hyperplasia:medulla	39> 0 3 0 0 (0) (8) (0) (0)	<pre></pre>	<36> 2 3 0 0 (6) (8) (0) (0)	2 3 0 0 (5) (7) (0) (0)		
	focal fatty change:cortex	1 0 0 0 0 (3) (0) (0)	2 0 0 0 0 (6) (70) (70)	1 1 0 0 (3) (3) (0) (0)	1 0 0 0 0 (2) (0) (0)		
Reproductiv	ve system)						
estis	mineralization	<39> 1 0 0 0 (3) (0) (0) (0)	<36> 0 0 0 0 (0) (0) (0) (0)	<36> 0 0 0 0 (0) (0) (0) (0)	3 0 0 0 (7) (0) (0) (0)		
	inflammation	0 0 0 0 0 (0) (0)	3 0 0 0 0 (8) (9) (9)	3 0 0 0 0 (8) (0) (0)	0 0 0 0 0 (0) (0) (0)		
	interstitial cell hyperplasia	6 1 0 0 (15) (3) (0) (0)	8 0 0 0 (22) (0) (0) (0)	3 0 0 0 0 (8) (0) (0)	3 0 0 0 0 (7) (0) (0) (0)		
rostate	inflammation	39> 2 0 0 0 (5) (0) (0) (0)	36> 3 0 0 0 (8) (0) (0) (0)	<36> 2 0 0 0 (6) (0) (0) (0)	2 0 0 0 (5) (0) (0) (0)		
rade a > b	1+: Slight 2+: Moderate 3+ a: Number of animals examined at the si b: Number of animals with lesion c: b / a * 100	Marked 4+ : Severe e					

(HPT150)

: RAT F344/DuCr1Cr1j[F344/DuCrj]

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

REPORT TYPE : A1

ANIMAL

: MALE SEX

PAGE: 11

Organ	Findings	Group Name Control No. of Animals on Study 39 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 36 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 41 1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Reproductive	e system)				
prostate	lymphocytic infiltration	<39> 1 0 0 0 (3) (0) (0) (0)	<36> 0 0 0 0 0 0 0 0 0 0 0	36> 0 0 0 0 (0) (0) (0) (0)	<41> 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	hyperplasia	4 0 0 0 (10) (0) (0) (0)	4 0 0 0 0 (11) (0) (0) (0)	1 1 0 0 (3) (3) (0) (0)	0 1 0 0 (0) (2) (0) (0)
Special sens	se organs/appendage}				
ye	cataract	<39> 2 1 0 0 (5) (3) (0) (0)	<36> 3 1 0 0 (8) (3) (0) (0)	<36> 2 0 0 0 (6) (0) (0) (0)	<pre></pre>
	retinal atrophy	21 1 1 0 (54) (3) (3) (0)	23 1 1 0 (64) (3) (3) (0)	29 2 0 0 * (81) (6) (0) (0)	29 3 1 0 (71) (7) (2) (0)
	keratitis	2 0 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)
larder gl	degeneration	<39> 0 0 0 0 0 0 0 0 0 0 0	<36> 0 0 0 0 (0) (0) (0) (0)	<36> 1 0 0 0 (3) (0) (0) (0)	<41> 1 0 0 0 (2) (0) (0) (0)

(c) c: b/a * 100 Significant difference; *: P \leq 0.05 **: P \leq 0.01 Test of Chi Square

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : MALE

		Group Name No. of Animals on Stu	Control		444 ppm 36				1333 ppm 36				4000 ppm 41							
Organ	Findings	Grade	1+ (%)	39 2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+			1+ (%)	2+ (%)	3+ (%)	4+ (%)		1+ (%)	2+ (%)	3+ (%)	4+ (%)
(Special sense	organs/appendage)																			
Harder gl	lymphocytic infiltration	(0 0) (<39) 0 0) () 0 0)	0 (0)	0 (0)	(0)	36> 0 (0)	0 (0)	(0	<3 0 (0)	6> 0 (0)	0 (0)	(1 (<41 0 0)	> 0 (0)	0 (0)
(Musculoskelet	al system)																			
bone	osteosclerosis	(0 0) (<39) 0 0) (> 0 0)	0 (0)	1 (3)	(0)	35> 0 (0)	0 (0)	(0	<3 0 (0)	6> 0 (0)	0 (0)	(0 0) (<40 0 0))> 0 (0)	0 (0)
(Body cavities																				
peritoneum	peritonitis	(0 0) (<39) 0 0) (> 0 0)	0 (0)	0 (0)	0 (0)	36> 0 (0)	0 (0)	(0 0)	<3 0 (0)	6> 1 (3)	0 (0)	(0 (<41 0 0)	> 0 (0)	0 (0)

(HPT150)

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

BAIS5

TABLE L 4

HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC

LESIONS: FEMALE: ALL ANIMALS

ANIMAL : RAT F344/DuCr1Cr1j [F344/DuCrj]

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

REPORT TYPE : A1

SEX : FEMALE

PAGE : 17

Organ	!	Group Name Control lo. of Animals on Study 50 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%)
{Integumenta	ry system/appandagel				
skin/app	erosion	<50> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	(50) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	scab	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 (0) (0)
{Respiratory	system)				
nasal cavit	hemorrhage	<50> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	thrombus	3 0 0 0 0 (6) (6) (7)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (4) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
	mineralization	18 0 0 0 (36) (0) (0) (0)	13 0 0 0 (27) (0) (0) (0)	18 0 0 0 (36) (0) (0) (0)	14 0 0 0 (28) (0) (0) (0)
	goblet cell hyperplasia	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)
	eosinophilic change:olfactory epitheliu	m 12 33 2 0 (24) (66) (4) (0)	21 24 0 0 (44) (50) (0) (0)	20 28 2 0 (40) (56) (4) (0)	18 30 0 0 (36) (60) (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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

ANIMAL : RAT F344/DuCriCrij[F344/DuCrj]

ALL ANIMALS (0-105W)

REPORT TYPE : A1

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

FEMALE					PAGE :
			444 ppm 50	1333 ppm 50	4000 ppm 50
Findings	irade 1+ 2+ (%) (%)	3+ 4+ (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
system)					
eosinophilic change:respiratory epithel	ium 10 0	0 0	<48> 9 0 0 0 (19) (0) (0) (0)	<50> 9 0 0 0 (18) (0) (0) (0)	<50> 11 0 0 0 (22) (0) (0) (0)
inflammation:foreign body	2 0 (4) (0)	0 0 (0)	1 0 0 0 0 (2) (0) (0)	1 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)
inflammation:respiratory epithelium	9 1 (18) (2)	0 0	14 0 0 0 (29) (0) (0) (0)	8 0 0 0 (16) (0) (0)	10 0 0 0 (20) (0) (0) (0)
respiratory metaplasia:gland	50 0 (100) (0)	0 0 (0)	48 0 0 0 (100) (0) (0) (0)	50 0 0 0 (100) (0) (0) (0)	50 0 0 0 (100) (0) (0) (0)
ulcer:respiratory epithelium	0 2 (0) (4)	0 0	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
inflammatory infiltration	9 0	0 0	<50> 4 0 0 0 (8) (0) (0) (0)	<50> 4 0 0 0 (8) (0) (0) (0)	<50> 2 1 0 0 (4) (2) (0) (0)
congestion	2 0	0 0	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	Findingssystem eosinophilic change:respiratory epithel inflammation:foreign body inflammation:respiratory epithelium respiratory metaplasia:gland ulcer:respiratory epithelium inflammatory infiltration	FEMALE Group Name Contro No. of Animals on Study Grade 1+ 2+ 2+ (%) (%) system) eosinophilic change:respiratory epithelium 10 0 (20) (0) inflammation:foreign body 2 0 (4) (0) inflammation:respiratory epithelium 9 1 (18) (2) respiratory metaplasia:gland 50 0 (100) (0) ulcer:respiratory epithelium 0 2 (0) (4) inflammatory infiltration 9 0 (18) (0)	Group Name No. of Animals on Study S0 S0 S0 S0 S0 S0 S0 S	Croup Name No. of Animals on Study 50 50 50 50 50 50 50 5	FEMALE Group Name No. of Animals on Study 50 50 50 50 50 50 50 5

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 : b / a * 100

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

ANIMAL : RAT F344/DuCr|Cr|j[F344/DuCrj] REPORT TYPE : A1 SEX

: FEMALE

PAGE: 19

Organ	Findings	Group Name No. of Animals on Stud Grade		ntrol 5(2+ (%)	3+ (%)		1+		ppm 5(2+ (%)	3+ (%)		4+ (%)		1+ (%)	2	ppm 50 !+ ()	3+ (%)	4+ (%)		4(1+ %)	2+	50	3+ (%)	4+ (%)
{Respiratory	system)																							
lung	inflammatory infiltration	(3 6) (<50 0 0)	0 (0)	0 (0)	1 (2)	(<50 0 0))> 0 (0)	(0 0)	(0 0)	1 (2	<50) !) (0 0)	0 (0)	{ 4	2 4)	0 (0)	(50>	0	0 (0)
	accumulation of foamy cells	(3 6) (0 0)	0 (0)	0 (0)	0 (0)	(0	0 (0)	(0 0)	(1 2)	(0))) (0 0)	0 (0)	{ 2	2 4)	0 (0)	(0	0 (0)
	bronchiolar-alveolar cell hyperplasia	(0 0) (0 0)	0 (0)	0 (0)	2 (4)	(0 0)	0 (0)	(0 0)	(1 2)	(0) (0 0)	0 (0)	((0 0)	0 (0)	(0 0)	0 (0)
{Hematopoleti	c system)																							
oone marrow	granulation	(0 0) (<50 0 0))> 0 (0)	0 (0)	0 (0)	(<48 0 0)	3> 0 (0)	(0 0)	(2 4)	(0	<50)) (0 0 0)	0 (0)	(()))	0 (0)	(50>	0	0 (0)
	increased hematopoiesis	(7 14) (1 2)	0 (0)	0 (0)	8 (17)	(0 0)	0 (0)	(0 0)	(6 12)	1 (2) (0 0)	0 (0)	9 (18	9 3)	0 (0)	{	0 0)	0 (0)
	myelofibrosis	(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)
spleen	congestion	(0 0) (<50 0 0))> 0 (0)	0 (0)	1 (2)	(<50 0 0))> 0 (0)	(0 0)	(0 0)	0 (0	<50>) (, 0 0)	0 (0)	(())}	0 (0)		0 0) (0 (0)

Grade

1+ : Slight

2+ : Moderate

3+ : Marked

4+ : Severe

< a > b

a : Number of animals examined at the site

b : Number of animals with lesion

(c) c : b / a * 100

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

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

PAGE: 20

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Hematopoieti	c system)				
spleen	deposit of hemosiderin	<50> 24 0 0 0 (48) (0) (0) (0)	33 1 0 0 (66) (2) (0) (0)	35 0 0 0 ± (70) (0) (0) (0)	37 0 0 0 * (74) (0) (0) (0)
	focal lymphoid hyperplasia	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)
	extramedullary hematopoiesis	34 2 4 0 (68) (4) (8) (0)	33 6 2 0 (66) (12) (4) (0)	31 4 1 0 (62) (8) (2) (0)	34 1 3 0 (68) (2) (6) (0)
(Circulatory	system)				
heart	thrombus	<50> 0 2 0 0 (0) (4) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	mineralization	1 0 0 0 (2) (3) (3)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	inflammatory infiltration	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0) (0)
	myocardial fibrosis	28 1 0 0 (56) (2) (0) (0)	27 1 0 0 (54) (2) (0) (0)	19 1 0 0 (38) (2) (0) (0)	17 2 0 0 (34) (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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX : FEMALE PAGE: 21

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
Organ	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Digestive s	ystem)				
stomach	ulcer:forestomach	<50> 3 1 0 0 (6) (2) (0) (0)	<50> 3 1 0 0 (6) (2) (0) (0)	<50> 0 0 1 0 (0) (0) (2) (0)	<50> 0 1 0 0 (0) (2) (0) (0)
	hyperplasia:forestomach	2 1 0 0 (4) (2) (0) (0)	0 1 1 0 (0) (2) (2) (0)	3 1 0 0 (6) (2) (0) (0)	12 6 1 0 ** (24) (12) (2) (0)
	erosion:glandular stomach	1 1 0 0 (2) (2) (0) (0)	3 1 0 0 (6) (2) (0) (0)	0 1 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)
	ulcer:glandular stomach	5 0 1 0 (10) (0) (2) (0)	1 0 0 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 *
	hyperplasia:glandular stomach	6 0 0 0 (12) (0) (0) (0)	4 0 0 0 0 (8) (0) (0)	7 0 0 0 (14) (0) (0) (0)	10 0 0 0 (20) (0) (0) (0)
	neuroendocrine cell hyperplasia:foca	0 1 0 0 (0) (2) (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (2) (0) (0)	0 0 0 0 0 (0) (0)
liver	herniation	<50> 7 0 0 0 (14) (0) (0) (0)	<pre></pre>	50> 5 0 0 0 (10) (0) (0) (0)	(50) 13 0 0 0 (26) (0) (0) (0)
	necrosis:central	0 1 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 2 0 0 (0) (4) (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 : b / a * 100

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

ANIMAL : RAT F344/DuCrICrlj[F344/DuCrj]

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

SEX

REPORT TYPE : A1 : FEMALE

PAGE: 22

	5. V	Group Name Control No. of Animals on Study 50 Grade 1+ 2+ 3+ 4+	444 ppm 50 1+ 2+ 3+ 4+	1333 ppm 50 1+ 2+ 3+ 4+	4000 ppm 50 1+ 2+ 3+ 4+
Organ	Findings	(%) (%) (%)	(%) (%) (%) (%)	(%) (%) (%) (%)	(%) (%) (%) (%)
{Digestive :	system)				
liver	necrosis:focal	(50) 0 0 0 0 (0) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)	(50) 1 1 0 0 (2) (2) (0) (0)	<pre></pre>
	inflammatory infiltration	1 0 0 0 (2) (3) (4)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (3) (4)
	lymphocytic infiltration	0 0 0 0 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)
	granulation	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) (0)
	inflammatory cell nest	4 2 0 0 (8) (4) (0) (0)	2 2 1 0 (4) (2) (0)	2 2 0 0 (4) (4) (0) (0)	1 3 0 0 (2) (6) (0) (0)
	clear cell focus	3 0 0 0 0 (6) (7)	0 0 1 0 (0) (2) (0)	2 0 0 0 0 (4) (0) (0) (0)	1 0 0 0 0 (2) (0) (0)
	acidophilic cell focus	7 2 0 0 (14) (4) (0) (0)	6 0 0 0 0 (12) (0) (0)	6 0 0 0 0 (12) (0) (0) (0)	6 2 2 0 (12) (4) (4) (0)
	basophilic cell focus	25 0 0 0 (50) (0) (0) (0)	24 1 0 0 (48) (2) (0) (0)	28 1 0 0 (56) (2) (0) (0)	19 0 0 0 (38) (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

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

PAGE: 23

REPORT TYPE : A1

SEX : FEMALE

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
Organ		Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Digestive s	system)				
liver	bile duct hyperplasia	<50> 1 1 0 0 (2) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	bile ductular proliferation	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)
	cholangiofibrosis	0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 2 0 0 (0) (4) (0) (0)	0 0 0 0 0 (0) (0)
pancreas	atrophy	<50> 2 0 0 0 (4) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0)
	islet cell hyperplasia	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (2) (0) (0)	0 1 0 0 (0) (2) (0) (0)	0 0 0 0 0 (0) (0)
{Urinary sys	stem)				
kidney	cyst	(50) 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
Grade <a>> b (c)	1+: Slight 2+: Moderate 3+: a: Number of animals examined at the sit b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤				

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] ALL

T 3447 DUOT TOT T] [C 3447 DUOT]] ALL 7

REPORT TYPE : A1 SEX : FEMALE

PAGE: 24

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
Organ	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Urinary syst	em)				
kidney	hyaline droplet	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	scar	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)
	chronic nephropathy	25 5 2 0 (50) (10) (4) (0)	28 5 2 0 (56) (10) (4) (0)	28 4 1 0 (56) (8) (2) (0)	21 4 1 0 (42) (8) (2) (0)
	mineralization:pelvis	1 0 0 0 (2) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0) (0)
(Endocrine sy	rstem}				
pituitary	angiectasis	<50> 2 2 0 0 (4) (4) (0) (0)	<50> 3 1 0 0 (6) (2) (0) (0)	<50> 2 1 0 0 (4) (2) (0) (0)	<50> 4 3 0 0 (8) (6) (0) (0)
	cyst	9 2 0 0 (18) (4) (0) (0)	6 2 0 0 (12) (4) (0) (0)	6 2 0 0 (12) (4) (0) (0)	5 0 0 0 (10) (0) (0) (0)
	hyperplasia	2 5 1 0 (4) (10) (2) (0)	11 3 0 0 * (22) (6) (0) (0)	4 8 1 0 (8) (16) (2) (0)	4 2 2 0 (8) (4) (4) (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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: RAT F344/DuCrlCrlj[F344/DuCrj] ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX

ANIMAL

: FEMALE

PAGE: 25

Organ	Findings	Group Name Control No. of Animals on Study 50 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%)
{Endocrine sy	steml				
pituitary	Rathke pouch	3 0 0 0 (6) (0) (0) (0)	<50> 0 1 0 0 (0) (2) (0) (0)	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 5 0 0 0 (10) (0) (0) (0)
thyroid	C-cell hyperplasia	<50> 8 0 1 0 (16) (0) (2) (0)	<pre></pre>	\$50\$ 9 2 0 0 (18) (4) (0) (0)	<50> 5 1 0 0 (10) (2) (0) (0)
parathyroid	hyperplasia	<50> 0 0 0 0 0 0 0 0 0 0 0	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
adrenal	peliosis-like lesion	<50> 0 0 0 0 0 0 0 0 0 0 0	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	extramedullary hematopoiesis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)
	hyperplasia:cortical cell	3 4 0 0 (6) (8) (0) (0)	4 2 1 0 (8) (4) (2) (0)	6 1 0 0 (12) (2) (0) (0)	5 2 0 0 (10) (4) (0) (0)
	hyperplasia:medulla	1 1 0 0 (2) (2) (0) (0)	0 0 0 0 0 (0) (0) (0)	2 0 0 0 0 (4) (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

ANIMAL : RAT F344/DuCr|Cr|j[F344/DuCrj]
REPORT TYPE : A1

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SEX : FEMALE ALL ANIMALS (0-105W)

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
rgan	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)		1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4· (%) (%) (%) (%)
Endocrine	system)				
Irenal	focal fatty change:cortex	(50) 7 1 0 0 (14) (2) (0) (0)	<pre></pre>	<50> 3 1 0 0 (6) (2) (0) (0)	<50> 4 0 0 0 (8) (0) (0) (0)
eproducti	ve system)				
ary	cyst	<50> 2 0 0 0 (4) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	3 0 0 0 (6) (0) (0) (0
	abscess	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) (0) (0)
erus	dilatation	<50> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
	decidual change	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 (0) (0) (0)
	cystic endometrial hyperplasia	5 0 0 0 (10) (0) (0) (0)	10 0 0 0 (20) (0) (0) (0)	13 0 0 0 (26) (0) (0) (0)	8 0 0 0 (16) (0) (0) (0)

1+ : Slight Grade 2+ : Moderate 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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

SEX

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1 : FEMALE

PAGE: 27

Findings	Group Name Control No. of Animals on Study 50 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 50 1+ 2+ 3+ 4+ (%) (%) (%) (%)
em)				
hemorrhage	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
gliosis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)
hemorrhage	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 1 0 0 (0) (2) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)
organs/appendage)				
cataract	<50> 4 1 0 0 (8) (2) (0) (0)	<pre></pre>	(50) 1 2 0 0 (2) (4) (0) (0)	<50> 2
retinal atrophy	41 1 1 0 (82) (2) (2) (0)	38 3 0 0 (76) (6) (0) (0)	42 2 1 0 (84) (4) (2) (0)	39 4 2 0 (78) (8) (4) (0)
keratitis	0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (2) (0) (0) (0)	3 0 0 0 0 (6) (6) (0) (0)
	hemorrhage gliosis hemorrhage organs/appendage) cataract retinal atrophy	No. of Animals on Study 50 1+ 2+ 3+ 4+ 2+ 3+ 4+ (%) (%) (%) (%) (%) (%)	No. of Animals on Study 50 50 50 50 50 50 50 5	No. of Animals on Study

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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] ALL ANI

REPORT TYPE : A1

SEX : FEMALE

PAGE : 28

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50		
)rgan	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)		
{Special se	ense organs/appendage}						
еуе	iritis	\(\langle 50 \rangle \) 1	<50> 0 0 0 0 (0) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>		
Harder gl	degeneration	<50> 1 1 0 0 (2) (2) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)		
	inflammatory infiltration	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 (0) (0)	1 1 0 0 (2) (2) (0) (0)		
	lymphocytic infiltration	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 (2) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)		
	hyperplasia	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)		
(Musculoske	letal system)						
muscle	mineralization	<50> 0 0 0 0 (0) (0) (0) (0)	<50> 1 0 0 0 (2) (0) (0) (0)	(50) 0 0 0 0 (0) (0) (0) (0)	<50> 0 0 0 0 (0) (0) (0) (0)		
Grade < a > b (c) Significant	1+: Slight 2+: Moderate a: Number of animals examined at t b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **:						

(HPT150)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE

PAGE : 29

		Group Name No. of Animals on St		ntrol 51)			444	maq 50)			13	333 p	pm 50				4	000	ppm 50		
Organ	Findings	Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1 (?)	+ ()	2+	3+ (%)	4+ (%)		1+ (%)	2+ (%)		3+ %)	4+ (%)		1+ (%)	2 (%	+	3+ (%)	4· (%)
lusculoskel	etal system)																						
ne				<50)>				<48	3>				<	50>						(50)	•	
	osteosclerosis		1 (2)	1 (2)	0 (0)	0 (0)	(2	:)) (0 0)	0 (0)	0 (0)	(2 4)	1 (2)		0 0) (0 0)	(1 2)	2) (0 0)	(0)

b : Number of animals with lesion

(c) c:b/a * 100

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

(HPT150)

BAIS5

TABLE L 5

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

FEMALE: DEAD AND MORIBUND ANIMALS

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

DEAD AND MORIBUND ANIMALS (0-105W)

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

REPORT TYPE : A1

SEX : FEMALE PAGE: 12

	Group	Name Control Animals on Study 10	444 ppm 10	1333 ppm	4000 ppm 7
Organ	Findings	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Respiratory s	system)				
nasal cavit	hemorrhage	<10> 0 0 0 0 (0) (0) (0) (0)	<10> 0 0 1 0 (0) (0) (10) (0)	<pre></pre>	< 7> 0 0 0 0 0 (0) (0) (0) (0)
	thrombus	1 0 0 0 (10) (10) (10)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (29) (0) (0) (0)	1 0 0 0 0 (14) (0) (0) (0)
	mineralization	1 0 0 0 (10) (0) (0) (0)	2 0 0 0 (20) (0) (0)	4 0 0 0 (57) (0) (0) (0)	1 0 0 0 (14) (0) (0) (0)
	eosinophilic change:olfactory epithelium	1 6 0 0 (10) (60) (0) (0)	6 1 0 0 * (60) (10) (0) (0)	4 2 1 0 (57) (29) (14) (0)	1 5 0 0 (14) (71) (0) (0)
	eosinophilic change:respiratory epithelium	2 0 0 0 0 (20) (0) (0)	1 0 0 0 (10) (10) (10)	1 0 0 0 (14) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)
	inflammation:foreign body	1 0 0 0 (10) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	inflammation:respiratory epithelium	0 0 0 0 0 (0) (0) (0)	1 0 0 0 (10) (10) (10)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0) (0)
	respiratory metaplasia:gland	10 0 0 0 (100) (0) (0) (0)	10 0 0 0 (100) (0) (0) (0)	7 0 0 0 (100) (0) (0) (0)	7 0 0 0 (100) (0) (0) (0)

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

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

b b : Number of animals with lesion

c : b / a * 100

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE PAGE: 13

		Group Name Control	444 ppm	1333 ppm	4000 ppm 7
Irgan	Findings	No. of Animals on Study 10 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	10 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
Respiratory :	system}				
asal cavit	ulcer:respiratory epithelium	(10) 0 2 0 0 (0) (20) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)	< 7> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	< 7> 0 0 0 0 0 (0) (0) (0) (0)
arynx	inflammatory infiltration	<10> 0 0 0 0 (0) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)	< 7> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
ung	congestion	<10> 2 0 0 0 (20) (0) (0) (0)	<10> 1 0 0 0 (10) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)	0 0 0 0 0 0 (0) (0) (0)
	inflammatory infiltration	3 0 0 0 (30) (0) (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0	2 0 0 0 0 (29) (0) (0) (0)
Hematopoietio	c system}				
one marrow	increased hematopoiesis	<10> 4 1 0 0 (40) (10) (0) (0)	\$\ \ \ \ \ 5 \ \ \ \ \ \ \ \ \ \ \ \ \ \	<pre></pre>	< 7> 5 0 0 0 (71) (0) (0) (0)
spleen	deposit of hemosiderin	3 0 0 0 (30) (0) (0) (0)	<10> 2 1 0 0 (20) (10) (0) (0)	(<7> 1 0 0 0 (14) (0) (0) (0)	3 0 0 0 (43) (0) (0) (0)

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

b b: Number of animals with lesion

(c) c:b/a * 100

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

ANIMAL : RAT F344/DuCriCrlj[F344/DuCrj]
REPORT TYPE : A1

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

	AL TELL + MI	
SEX	: FEMALE	

Findings	Group Name Control No. of Animals on Study 10 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 10 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 7 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 7 1+ 2+ 3+ 4+ (%) (%) (%) (%)
ic system)				
extramedullary hematopoiesis	<10> 3 1 3 0 (30) (10) (30) (0)	<10> 1 2 2 0 (10) (20) (20) (0)	< 7> 1 0 1 0 (14) (0) (14) (0)	< 7> 2 0 3 0 (29) (0) (43) (0)
system)				
thrombus	<10> 0 1 0 0 (0) (10) (0) (0)	(10) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<pre></pre>
mineralization	0 0 0 0 0 (0) (0)	1 0 0 0 0 (10) (10) (10)	(0)(0)(0)(0)	0 0 0 0 0 (0) (0)
inflammatory infiltration	0 0 0 0 0 (0) (0)	1 0 0 0 (10) (10) (10)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 (14) (0) (0) (0)
myocardial fibrosis	7 1 0 0 (70) (10) (0) (0)	7 0 0 0 (70) (0) (0) (0)	3 1 0 0 (43) (14) (0) (0)	5 1 0 0 (71) (14) (0) (0)
ystem)				
ulcer:forestomach	<10> 2 0 0 0 (20) (0) (0) (0)	<10> 2 1 0 0 (20) (10) (0) (0)	< 7> 0 0 1 0 0 0 1 0 0 0 (14) (0)	<pre></pre>
	ic system) extramedullary hematopoiesis system) thrombus mineralization inflammatory infiltration myocardial fibrosis	No. of Animals on Study	No. of Animals on Study	No. of Animals on Study

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:b/a * 100

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

: RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

ANIMAL

SEX : FEMALE PAGE: 15

	Group Name Control	444 ppm	1333 ppm	4000 ppm 7
Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
ystem)				
hyperplasia:forestomach	<10> 1 0 0 0 (10) (0) (0) (0)	\(\langle 10 \rangle \) \(0 0 1 0 \) \(0 (0) (10) (0) \)	<pre></pre>	<pre></pre>
erosion:glandular stomach	1 1 0 0 (10) (10) (0) (0)	2 1 0 0 (20) (10) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
ulcer:glandular stomach	2 0 1 0 (20) (0) (10) (0)	1 0 0 0 (10) (0) (0) (0)	1 0 0 0 (14) (0) (0) (0)	0 0 0 0 0 (0) (0)
hyperplasia:glandular stomach	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 (14) (0) (0) (0)	0 0 0 0 0 (0) (0)
herniation	<10> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0 0 (30) (0) (0) (0)	<pre></pre>	3 0 0 0 (43) (0) (0) (0)
necrosis:central	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 2 0 0 (0) (29) (0) (0)
necrosis:focal	0 0 0 0 (0) (0)	1 0 0 0 (10) (10) (10)	1 1 0 0 (14) (14) (0) (0)	0 0 0 0 0 (0) (0)
inflammatory infiltration	1 0 0 0 (10) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 (14) (0) (0) (0)
	hyperplasia:forestomach erosion:glandular stomach ulcer:glandular stomach hyperplasia:glandular stomach herniation necrosis:central	No. of Animals on Study	No. of Animals on Study	No. of Animals on Study 10

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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

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

REPORT TYPE : A1

SEX : FEMALE

Organ	No	Coup Name Control o. of Animals on Study 10 rade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 10 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 7 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 7 1+ 2+ 3+ 4+ (%) (%) (%) (%)
Digestive s	systeml				
iver	acidophilic cell focus	<10> 0 0 0 0 (0) (0) (0) (0)	<10> 1 0 0 0 (10) (0) (0) (0)	< 7> 0 0 0 0 (0) (0) (0) (0)	< 7> 1 0 0 0 (14) (0) (0) (0)
	bile ductular proliferation	0 0 0 0 0 (0) (0)	1 0 0 0 (10) (10) (10)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
ancreas	atrophy	<10> 1 0 0 0 (10) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<pre></pre>
	islet cell hyperplasia	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	0 1 0 0 (0) (14) (0) (0)	0 0 0 0 0 (0) (0)
Urinary sys	stem)				
idney	cyst	(10) 1	(10) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<pre></pre>
	hyaline droplet	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (14) (0) (0)	0 0 0 0 0 (0) (0)
Grade (a > b (c)	1+: Slight 2+: Moderate 3+: a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤ 0				

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: RAT F344/DuCrlCrlj[F344/DuCrj]

REPORT TYPE : A1

ANIMAL

DEAD AND MORIBUND ANIMALS (0-105W)

SEX : FEMALE

		Group Name Control No. of Animals on Study 10 Grade 1+ 2+ 3+ 4+	444 ppm 10 1+ 2+ 3+ 4+	1333 ppm 7 1+ 2+ 3+ 4+	4000 ppm 7 1+ 2+ 3+ 4+
Organ	Findings	(%) (%) (%)	(%) (%) (%)	(%) (%) (%)	(%) (%) (%)
(Urinary syst	t em}				
kidney	scar	<10> 0 0 0 0 (0) (0) (0) (0)	<10> 1 0 0 0 (10) (0) (0) (0)	< 7> 0 0 0 0 (0) (0) (0) (0)	< 7> 0 0 0 0 (0) (0) (0) (0)
	chronic nephropathy	3 0 0 0 (30) (0) (0) (0)	0 0 1 0 (0) (10) (0)	1 0 0 0 0 (14) (0) (0)	3 0 0 0 (43) (0) (0) (0)
(Endocrine sy	vstem)				
oituítary	angiectasis	<10> 0 0 0 0 (0) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)	< 7> 2 0 0 0 (29) (0) (0) (0)	< 7> 1 0 0 0 (14) (0) (0) (0)
	cyst	3 0 0 0 (30) (0) (0) (0)	2 1 0 0 (20) (10) (0) (0)	2 0 0 0 (29) (0) (0) (0)	1 0 0 0 (14) (0) (0) (0)
	hyperplasia	0 1 0 0 (0) (10) (0)	0 0 0 0 0 (0) (0)	1 1 1 0 (14) (14) (14) (0)	0 1 0 0 (0) (14) (0) (0)
	Rathke pouch	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (14) (0) (0)	0 0 0 0 0 (0) (0)
thyroid	C-cell hyperplasia	<10> 1 0 0 0 (10) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)	< 7> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>

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; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

(HPT150)

BAIS5

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1

SEX : FEMALE PAGE: 18

		Group Name Control No. of Animals on Study 10	444 ppm _ 10	1333 ppm 7	4000 ppm 7
Organ	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Endocrine s	ystem)				
adrenal	peliosis-like lesion	<10> 0 0 0 0 (0) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)	7> 1 0 0 0 (14) (0) (0) (0)	0 0 0 0 (0) (0) (0) (0)
	extramedullary hematopoiesis	0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (14) (0) (0) (0)
	hyperplasia:cortical cell	0 1 0 0 (0) (10) (0)	1 0 0 0 (10) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)	.0 0 0 0 0 (0) (0)
	hyperplasia:medulla	1 1 0 0 (10) (10) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	focal fatty change:cortex	2 0 0 0 (20) (0) (0) (0)	1 0 0 0 (10) (10) (10)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
Reproductiv	e system)				
ovary	abscess	(10) 0 0 0 0 (0) (0) (0) (0)	<10> 0 1 0 0 (0) (10) (0) (0)	<pre></pre>	<pre></pre>
uterus	cystic endometrial hyperplasia	<10> 2	<10> 3 0 0 0 (30) (0) (0) (0)	< 7> 1 0 0 0 (14) (0) (0) (0)	< 7> 1 0 0 0 0 (14) (0) (0) (0)

< a >

a : Number of animals examined at the site

b b : Number of animals with lesion

(c) c : b / a * 100

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

DEAD AND MORIBUND ANIMALS (0-105W)

REPORT TYPE : A1 SEX

: FEMALE PAGE: 19

Organ	Findings	Group Name Control No. of Animals on Study 10 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 10 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 7 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 7 1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Nervous syst	em)				
brain	hemorrhage	<10> 0 0 0 0 (0) (0) (0) (0)	<10> 0 1 0 0 (0) (10) (0) (0)	<pre></pre>	<pre></pre>
spinal cord	hemorrhage	<10> 0 0 0 0 (0) (0) (0) (0)	<10> 0 1 0 0 (0) (10) (0) (0)	< 7> 0 0 0 0 0 0 0 0 0 0 0 0	< 7> 0 0 0 0 0 (0) (0) (0) (0)
Special sens	e organs/appendagel				
ye	cataract	<10> 0 0 0 0 (0) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	< 7> 1 1 0 0 (14) (14) (0) (0)
	retinal atrophy	5 0 0 0 (50) (0) (0) (0)	3 0 0 0 (30) (0) (0) (0)	3 0 0 0 (43) (0) (0) (0)	1 1 1 0 (14) (14) (14) (0)
	keratitis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 0 (29) (0) (0) (0)
larder gl	inflammatory infiltration	<10> 0 0 0 0 (0) (0) (0) (0)	<10> 0 0 0 0 (0) (0) (0) (0)	< 7> 0 0 0 0 0 (0) (0) (0)	<pre></pre>

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

b : Number of animals with lesion

(c) c : b / a * 100

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

(HPT150)

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

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

REPORT TYPE : A1

SEX : FEMALE

Organ	Group Nam No. of An Grade Findings	e Control imals on Study 10 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 10 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 7 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 7 1+ 2+ 3+ 4+ (%) (%) (%) (%)
pecial se	nse organs/appendage)				
arder gl	hyperplasia	<10> 0 0 0 0 (0) (0) (0) (0)	(10) 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	0 0 0 0 (0) (0) (0) (0)
luscu I oske	letal system}				
uscle	mineralization	<10> 0 0 0 0 (0) (0) (0) (0)	(10) 1 0 0 0 (10) (0) (0) (0)	(7> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>
rade a > b c) ignificant	1+: Slight 2+: Moderate 3+: Marked a: Number of animals examined at the site b: Number of animals with lesion c: b / a * 100 difference; *: P ≤ 0.05 **: P ≤ 0.01	4+ : Severe			
HPT150)					

TABLE L 6

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

FEMALE: SACRIFICED ANIMALS

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

: FEMALE SEX

PAGE: 13

Organ		Group Name Control No. of Animals on Study 40 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 40 1+ 2+ 3+ 4+ (%) (%) (%)	1333 ppm 43 1+ 2+ 3+ 4+ (%) (%) (%)	4000 ppm 43 1+ 2+ 3+ 4+ (%) (%) (%)
{Integumentar	ry system/appandage)				
skin/app	erosion	<40> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<43> 0 0 0 0 (0) (0) (0) (0)	<43> 1 0 0 0 (2) (0) (0) (0)
	scab	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)
{Respiratory	system)				
nasal cavit	thrombus	<40> 2 0 0 0 (5) (0) (0) (0)	<38> 0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)
	mineralization	17 0 0 0 (43) (0) (0) (0)	11 0 0 0 (29) (0) (0) (0)	14 0 0 0 (33) (0) (0) (0)	13 0 0 0 (30) (0) (0) (0)
	goblet cell hyperplasia	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (2) (0) (0)	0 0 0 0 0 (0) (0)
	eosinophilic change:olfactory epitheli	um 11 27 2 0 (28) (68) (5) (0)	15 23 0 0 (39) (61) (0) (0)	16 26 1 0 (37) (60) (2) (0)	17 25 0 0 (40) (58) (0) (0)
	eosinophilic change:respiratory epithe	8 0 0 0 0 (20) (0) (0) (0)	8 0 0 0 (21) (0) (0) (0)	8 0 0 0 (19) (0) (0) (0)	11 0 0 0 (26) (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 b

c:b/a * 100

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

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

REPORT TYPE : A1 SEX : FEMALE

Group Name 444 ppm 1333 ppm 4000 ppm Control No. of Animals on Study 40 40 43 43 Grade 1+ 2+ 3+ 4+ 1+ 2+ 3+ 4+ 1+ 2+ 3+ 4+ 1+ 2+ 3+ 4+

Organ	Findings	(%) (%) (%) (%)	(%) (%) (%) (%)	(%) (%) (%) (%)	(%) (%) (%) (%)
(Respiratory	system)				
nasal cavit	inflammation:foreign body	40> 1 0 0 0 (3) (0) (0) (0)	. <38> 1 0 0 0 (3) (0) (0) (0)	<43> 1 0 0 0 (2) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)
	inflammation:respiratory epithelium	9 1 0 0 (23) (3) (0) (0)	13 0 0 0 (34) (0) (0) (0)	8 0 0 0 (19) (0) (0) (0)	10 0 0 0 (23) (0) (0) (0)
	respiratory metaplasia:gland	40 0 0 0 (100) (0) (0) (0)	38 0 0 0 (100) (0) (0) (0)	43 0 0 0 (100) (0) (0) (0)	43 0 0 0 (100) (0) (0) (0)
larynx	inflammatory infiltration	<40> 9 0 0 0 (23) (0) (0) (0)	<40> 4 0 0 0 (10) (0) (0) (0)	<43> 4 0 0 0 (9) (0) (0) (0)	<43> 2 0 0 0 * (5) (0) (0) (0)
lung	inflammatory infiltration	<40> 0 0 0 0 (0) (0) (0) (0)	<40> 1 0 0 0 (3) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)
	accumulation of foamy cells	3 0 0 0 0 (8) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)	2 0 0 0 (5) (0) (0)
	bronchiolar-alveolar cell hyperplasia	0 0 0 0 0 (0) (0) (0)	2 0 0 0 0 (5) (0) (0)	1 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:b/a * 100 (c)

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

SEX : FEMALE

		Group Name Control No. of Animals on Study 40	444 ppm 40	1333 ppm 43	4000 ppm 43
Organ	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
(Hematopoieti	c system}				
bone marrow	granulation	<40> 0 0 0 0 (0) (0) (0) (0)	38> 0 0 0 0 (0) (0) (0) (0)	2 0 0 0 (5) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)
	increased hematopolesis	3 0 0 0 (8) (0) (0) (0)	3 0 0 0 0 (8) (0) (0) (0)	3 0 0 0 (7) (0) (0) (0)	4 0 0 0 0 (9) (0) (0)
	myelofibrosis	1 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
spleen	congestion	<40> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\(\langle 40 \rangle \) 1	0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)
	deposit of hemosiderin	21 0 0 0 (53) (0) (0) (0)	31 0 0 0 * (78) (0) (0) (0)	34 0 0 0 ‡ (79) (0) (0) (0)	34 0 0 0 ± (79) (0) (0) (0)
	focal lymphoid hyperplasia	0 0 0 0 0 (0) (0)	0 1 0 0 (0) (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)
	extramedullary hematopoiesis	31 1 1 0 (78) (3) (3) (0)	32 4 0 0 (80) (10) (0) (0)	30 4 0 0 (70) (9) (0) (0)	32 1 0 0 (74) (2) (0) (0)
{Circulatory	system)				
heart	thrombus	<40> 0 1 0 0 (0) (3) (0) (0)	<40> 0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)	<43> 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 ; $*: P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj] SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

: FEMALE SEX

PAGE: 16

Organ	Findings	Group Name Control No. of Animals on Study 40 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	444 ppm 40 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1333 ppm 43 1+ 2+ 3+ 4+ (%) (%) (%) (%)	4000 ppm 43 1+ 2+ 3+ 4+ (%) (%) (%)
(Circulatory	system)				
heart	mineralization	\(\langle 40 \rangle \) \[1 0 0 0 \\ (3) (0) (0) (0) \]	<pre></pre>	<43> 0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)
	myocardial fibrosis	21 0 0 0 (53) (0) (0) (0)	20 1 0 0 (50) (3) (0) (0)	16 0 0 0 (37) (0) (0) (0)	12 1 0 0 (28) (2) (0) (0)
(Digestive s	ystem)				
stomach	ulcer:forestomach	<40> 1 1 0 0 (3) (3) (0) (0)	<pre></pre>	0 0 0 0 (0) (0) (0) (0)	<pre></pre>
	hyperplasia:forestomach	1 1 0 0 (3) (3) (0) (0)	0 1 0 0 (0) (3) (0) (0)	1 0 0 0 0 (2) (0) (0)	11 3 1 0 ** (26) (7) (2) (0)
	erosion:glandular stomach	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0)	0 1 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	ulcer:glandular stomach	3 0 0 0 (8) (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:glandular stomach	6 0 0 0 (15) (0) (0) (0)	4 0 0 0 0 (10) (10) (10)	6 0 0 0 0 (14) (0) (0) (0)	10 0 0 0 (23) (0) (0) (0)

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

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

b b: Number of animals with lesion

c:b/a * 100

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

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCriCrij[F344/DuCrj]

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

: FEMALE SEX

PAGE: 17

	Group Name Control No. of Animals on Study 40		444 ppm 40				1333 ppm 43				4000 ppm 43									
Findings	Grade	1+	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+	3-			1+ (%)		+		4+ (%)			2+	3+ (%)	4+ (%)
tem}																				
neuroendocrine cell hyperplasia:focal		0 (0)	1	0	0 (0)	0 (0)	0	0	0 (0)		0 (0)	1		0 0) (0 (0)	0)) (0	0	(0)
herniation	(7 (18)	0	0	0 (0)	5 (13)	0	0	0 (0)		3 (7)	0		0 0) (0 (0)			0	0	0 (0)
necrosis:central	(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)
necrosis:focal	(0 (0)	0 (0)	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	0 (0)		0 (0)	(0) (0 0) (0 (0)	0)) (1 2)	0 (0)	0 (0)
lymphocytic infiltration	(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)
granulation	(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)
inflammatory cell nest	ţ	4 10)	2 (5)	0 (0)	0 (0)	2 (5)	2 (5)	1 (3)	0 (0)		2 (5)	2 (5) (0 0) (0 (0)	1 (2) (3 7)	0 (0)	0 (0)
clear cell focus	(3 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)		2 (5)	0 (0) (0 0) (0 (0)	1 (2) (0	0 (0)	0 (0)
	neuroendocrine cell hyperplasia:focal herniation necrosis:central necrosis:focal lymphocytic infiltration granulation inflammatory cell nest	Findings	Findings Grade 1+ (%) (%)	Grade	Grade	Grade	Crade	Grade	Grade	Findings	Grade	Findings	Findings	Findings	Findings	Findings	Findings	Thindings	Findings	Findings

Grade < a >

1+ : Slight

2+ : Moderate

3+ : Marked

4+ : Severe

a : Number of animals examined at the site

b : Number of animals with lesion

(c) c : b / a * 100

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

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : FEMALE HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

JLA	· ILMALE				I AUL . I
		Group Name Control No. of Animals on Study 40 Grade 1+ 2+ 3+ 4+	444 ppm 40 1+ 2+ 3+ 4+	1333 ppm 43 1+ 2+ 3+ 4+	4000 ppm 43 1+ 2+ 3+ 4+
Organ	Findings	(%) (%) (%)	(%) (%) (%)	(%) (%) (%)	(%) (%) (%)
{Digestive s	system)				
liver	acidophilic cell focus	<40> 7 2 0 0 (18) (5) (0) (0)	<40> 5 0 0 0 (13) (0) (0) (0)	<43> 6 0 0 0 (14) (0) (0) (0)	<pre></pre>
	basophilic cell focus	25 0 0 0 (63) (0) (0) (0)	24 1 0 0 (60) (3) (0) (0)	28 1 0 0 (65) (2) (0) (0)	19 0 0 0 (44) (0) (0) (0)
	bile duct hyperplasia	1 1 0 0 (3) (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
	bile ductular proliferation	0 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)
	cholangiofibrosis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 2 0 0 (0) (5) (0) (0)	0 0 0 0 0 (0) (0)
pancreas	atrophy	<40> 1 0 0 0 (3) (0) (0) (0)	3 0 0 0 (8) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)	<43> 2 0 0 0 (5) (0) (0) (0)
	íslet cell hyperplasia	0 0 0 0 (0) (0) (0)	0 1 0 0 (0) (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)
(Urinary sys	stem)				
kidney	hyaline droplet	<40> 1 0 0 0 (3) (0) (0) (0)	<40> 0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>

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

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

b b: Number of animals with lesion

(c) c : b / a * 100

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

: RAT F344/DuCrlCrlj[F344/DuCrj] SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

ANIMAL

SEX : FEMALE

PAGE : 19

		Group Name Control No. of Animals on Study 40	444 ppm 40	1333 ppm 43	4000 ppm 43
Organ	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)
{Urinary syst	em)				
kidney	scar	<40> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	<pre></pre>	<43> 1 0 0 0 (2) (0) (0) (0)
	chronic nephropathy	22 5 2 0 (55) (13) (5) (0)	28 5 1 0 (70) (13) (3) (0)	27 4 1 0 (63) (9) (2) (0)	18 4 1 0 (42) (9) (2) (0)
	mineralization:pelvis	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (0) (0)
{Endocrine sy	stem)				
pituitary	angiectasis	<40> 2 2 0 0 (5) (5) (0) (0)	3 1 0 0 (8) (3) (0) (0)	<pre></pre>	3 3 0 0 (7) (7) (0) (0)
	cyst	6 2 0 0 (15) (5) (0) (0)	4 1 0 0 (10) (10) (10)	4 2 0 0 (9) (5) (0) (0)	4 0 0 0 0 (9) (0) (0)
	hyperplasia	2 4 1 0 (5) (10) (3) (0)	11 3 0 0 * { 28} (8) (0) (0)	3 7 0 0 (7) (16) (0) (0)	4 1 2 0 (9) (2) (5) (0)
	Rathke pouch	· 3 0 0 0 0 (8) (0) (0) (0)	0 1 0 0 (0) (0)	1 0 0 0 (2) (0) (0)	5 0 0 0 (12) (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 ; * : $P \le 0.05$ ** : $P \le 0.01$ Test of Chi Square

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

ANIMAL : RAT F344/DuCriCrij[F344/DuCrj] SACRIFICED ANIMALS (105W)

REPORT TYPE : A1

SEX : FEMALE

		Group Name Control	444 ppm	1333 ppm	4000 ppm		
Organ	Findings	No. of Animals on Study 40 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	40 1+ 2+ 3+ 4+ (%) (%) (%) (%)	43 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)		
(Endocrine sy	stem						
thyroid	C-cell hyperplasia	<40> 7 0 1 0 (18) (0) (3) (0)	<pre></pre>	<43> 9 2 0 0 (21) (5) (0) (0)	<pre></pre>		
parathyroid	hyperplasia	<40> 0 0 0 0 (0) (0) (0) (0)	<pre></pre>	43> 1 0 0 0 (2) (0) (0) (0)	<pre></pre>		
adrenal	hyperplasia:cortical cell	3 3 0 0 (8) (8) (0) (0)	3 2 1 0 (8) (5) (3) (0)	<43> 6 1 0 0 (14) (2) (0) (0)	5 2 0 0 (12) (5) (0) (0)		
	hyperplasia:medulla	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	2 0 0 0 (5) (0) (0) (0)	0 0 0 0 0 (0) (0) (0)		
	focal fatty change:cortex	5 1 0 0 (13) (3) (0) (0)	1 0 0 0 0 (3) (0) (0)	3 1 0 0 (7) (2) (0) (0)	4 0 0 0 (9) (0) (0)		
(Reproductive	system)						
ovary	cyst	<40> 2 0 0 0 (5) (0) (0) (0)	<40> 0 0 0 0 (0) (0) (0) (0)	<43> 1 0 0 0 (2) (0) (0) (0)	3 0 0 0 (7) (0) (0) (0)		

(HPT150)

b

(c)

b : Number of animals with lesion

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

c : b / a * 100

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

HISTOPATHOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS (SUMMARY)

SACRIFICED ANIMALS (105W)

SEX : FEMALE

		Group Name Control No. of Animals on Study 40	444 ppm 40	1333 ppm 43	4000 ppm 43	
gan	Findings	Grade 1+ 2+ 3+ 4+ (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	
Reproductive	e system)					
terus	dilatation	<40> 0 0 0 0 0 0 0 0 0 0 0	<40> 0 1 0 0 (0) (3) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)	
	decidual change	0 0 0 0 0 (0) (0)	1 0 0 0 0 (3) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	
	cystic endometrial hyperplasia	3 0 0 0 (8) (0) (0)	7 0 0 0 (18) (0) (0) (0)	12 0 0 0 ± (28) (0) (0) (0)	7 0 0 0 (16) (0) (0) (0)	
Vervous syst	e em)					
rain	hemorrhage	<40> 1 0 0 0 (3) (0) (0) (0)	<40> 0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)	<43> 0 0 0 0 (0) (0) (0) (0)	
	gliosis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0) (0)	1 0 0 0 0 (2) (0) (0) (0)	
Special sens	se organs/appendage)					
ye	cataract	<40> 4 1 0 0 (10) (3) (0) (0)	<pre></pre>	<43> 1 2 0 0 (2) (5) (0) (0)	<43> 1 3 0 0 (2) (7) (0) (0)	

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

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

REPORT TYPE : A1

: FEMALE SEX

PAGE: 22

		Group Name Control	444 ppm	1333 ppm	4000 ppm	
gan	Findings	No. of Animals on Study 40 Grade 1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	1+ 2+ 3+ 4+ (%) (%) (%) (%)	43 1+ 2+ 3+ 4+ (%) (%) (%) (%)	
pecial sens	se organs/appendage)					
ve	retinal atrophy	36 1 1 0 (90) (3) (3) (0)	35 3 0 0 (88) (8) (0) (0)	39 2 1 0 (91) (5) (2) (0)	<43> 38 3 1 0 (88) (7) (2) (0)	
	keratitis	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (3) (4)	1 0 0 0 0 (2) (0) (0) (0)	
	iritis	1 0 0 0 (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)	
rder gl	degeneration	<40> 1 1 0 0 (3) (3) (0) (0)	<40> 1 0 0 0 (3) (0) (0) (0)	43> 1 0 0 0 (2) (0) (0) (0)	(43) 1 0 0 0 (2) (0) (0) (0	
	inflammatory infiltration	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	0 0 0 0 0 (0) (0)	0 1 0 0	
	lymphocytic infiltration	0 0 0 0 0 (0) (0) (0)	0 0 0 0 0 (0) (0)	1 0 0 0 0 (2) (3) (4)	1 0 0 0 0 (2) (0) (0) (0)	
Musculoskele	etal system}					
one	osteosclerosis	<40> 1 1 0 0 (3) (3) (0) (0)	<38> 2 0 0 0 (5) (0) (0) (0)	<43> 2 1 0 0 (5) (2) (0) (0)	\(\langle 43 \rangle \) 1	

< a >

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

TABLE M 1

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

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 NUMBER OF ANIMALS WITH TUMORS AND NUMBER OF TUMORS - TIME RELATED

: MALE SEX PAGE: 1

ime-related Weeks	ltems	Group Name	Control	444 ppm	1333 ppm	4000 ppm	
0 - 52	NO. OF EXAMINED ANIMALS		0	0	0	0	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		0 0 0	0 0 0	0 0 0	0 0 0	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		0 0 0	0 0 0	0 0 0	0 0 0	
53 - 78	NO. OF EXAMINED ANIMALS		2	3	1	3	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		2 2 0	3 1 2	0 0 0	3 3 0	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		0 2 2	4 1 5	0 0 0	0 3 3	
79 - 104	NO. OF EXAMINED ANIMALS		9	11	13	6	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		9 1 8	11 2 9	12 7 5	6 2 4	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		20 4 24	18 5 23	12 7 19	11 2 13	
105 - 105	NO. OF EXAMINED ANIMALS		39	36	36	41	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		39 7 32	35 9 26	36 10 26	41 11 30	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		85 7 92	66 10 76	74 10 84	82 7 89	

(HPT070)

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

ANIMAL : RAT F344/DuCrICrlj[F344/DuCrj]

REPORT TYPE : A1

SEX : MALE PAGE : 2

Time-related Weeks	Items	Group Name	Control	444 ppm	1333 ррм	4000 ppm	
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		50 10 40	49 12 37	48 17 31	50 16 34	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		105 13 118	88 16 104	86 17 103	93 12 105	
(HDT070)							DAICE

(HPT070) BAIS5

TABLE M 2

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

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

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE PAGE: 3

Time-related Weeks	ltems	Group Name	Control	444 ppm	1333 ppm	4000 ppm	
0 - 52	NO. OF EXAMINED ANIMALS		1	1	0	0	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		1 1 0	1 1 0	0 0 0	0 0 0	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		0 1 1	0 1 1	0 0 0	0 0 0	
53 - 78	NO. OF EXAMINED ANIMALS		1	4	1	1	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		1 0 1	4 4 0	1 1 0	1 1 0	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		2 0 2	1 3 4	0 1 1	0 1 1	
79 - 104	NO. OF EXAMINED ANIMALS		8	5	6	6	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		8 4 4	5 2 3	6 3 3	6 5 1	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		8 5 13	4 4 8	5 5 10	2 5 7	
105 - 105	NO. OF EXAMINED ANIMALS		40	40	43	43	
	NO. OF ANIMALS WITH TUMORS NO. OF ANIMALS WITH SINGLE TUMORS NO. OF ANIMALS WITH MULTIPLE TUMORS		28 13 15	27 17 10	26 10 16	33 21 12	
	NO. OF BENIGN TUMORS NO. OF MALIGNANT TUMORS NO. OF TOTAL TUMORS		40 8 48	36 5 41	40 6 46	42 7 49	

(HPT070)

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

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj] REPORT TYPE : A1

SEX

: FEMALE

PAGE: 4

Time-related Weeks	Items	Group Name	Control	444 ppm	1333 ppm	4000 ppm	
0 - 105	NO. OF EXAMINED ANIMALS		50	50	50	50	
	NO. OF ANIMALS WITH TUMORS		38	37	33	40	
	NO. OF ANIMALS WITH SINGLE TUMORS		18	24	14	27	
	NO. OF ANIMALS WITH MULTIPLE TUMORS		20	13	19	13	
	NO. OF BENIGN TUMORS		50	41	45	44	
	NO. OF MALIGNANT TUMORS		14	13	12	13	
	NO. OF TOTAL TUMORS		64	54	57	57	
/UDTOZO)							

(HPT070)

BAIS5

TABLE N 1

HISTOPATHOLOGICAL FINDINGS:

NEOPLASTIC LESIONS: MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

Organ	Findings	Group Name Control No. of animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
{ ntegumenta	ry system/appandage)				
skin/app	squamous cell papilloma	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	trichoepithelioma	3 (6%)	0 (0%)	0 (0%)	0 (0%)
	keratoacanthoma	2 (4%)	2 (4%)	1 (2%)	1 (2%)
	squamous cell carcinoma	0 (0%)	1 (2%)	0 (0%)	0 (0%)
subcutis	fibroma	<50> 6 (12%)	<50> 5 (10%)	<50> 2 (4%)	<50> 4 (8%)
	lipoma	3 (6%)	0 (0%)	0 (0%)	0 (0%)
	l е i отуота	1 (2%)	1 (2%)	0 (0%)	0 (0%)
	fibrosarcoma	0 (0%)	0 (0%)	0 (0%)	1 (2%)
	liposarcoma	0 (0%)	0 (0%)	0 (0%)	1 (2%)
	leiomyosarcoma	0 (0%)	0 (0%)	1 (2%)	1 (2%)
	histiocytic sarcoma	0 (0%)	0 (0%)	0 (0%)	1 (2%)
{Respiratory	system)				
lung	bronchiolar-alveolar adenoma	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 3 (6%)
< a > b (c)	a : Number of animals examined at the site b : Number of animals with neoplasm c : b / a * 1	00			

(HPT085)

BA1S5

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

: MALE SEX

Organ	Findings	Group Name Control No. of animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
(Respiratory	system)				
lung	bronchiolar-alveolar carcinoma	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
(Hematopoieti	c system)				
spleen	mononuclear cell leukemia	<50> 4 (8%)	<50> 5 (10%)	<50> 5 (10%)	<50> 2 (4%)
	hemangiosarcoma	0 (0%)	1 (2%)	0 (0%)	0 (0%)
(Digestive sy	stem)				
oral cavity	squamous cell papilloma	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	squamous cell carcinoma	1 (2%)	0 (0%)	0 (0%)	0 (0%)
tooth	ameloblastoma	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
tongue	squamous cell papilloma	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 2 (4%)
	squamous cell carcinoma	0 (0%)	0 (0%)	1 (2%)	1 (2%)
esophagus	squamous cell papilloma	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
stomach	squamous cell papilloma	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)	<50> 10 (20%)
	squamous cell carcinoma	1 (2%)	0 (0%)	0 (0%)	0 (0%)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

)rgan	Findings	Group Name Control No. of animals on Study	444 pi 50	om 50	1333 pp	50	4000 pr	m 50
(Digestive sys	tem}							
small intes	adenocarcinoma	< 5 0 (50> 0%) 0	<50> (0%)		<50> (2%)		<50> (0%)
iver	hepatocellular adenoma	< E 0 (50> 0%) 1	<50> (2%)		<50> (4%)		<50> (2%)
	hepatocellular carcinoma	0 (0%) 0	(0%)	1	(2%)	0	(0%)
pancreas	islet cell adenoma	< 5 6 (50> 12%) 4	<50> (8%)		<50> (6%)		<50> (10%)
	islet cell adenocarcinoma	0 (0%) 1	(2%)	0	(0%)	0	(0%)
	acinar cell adenocarcinoma	0 (0%) 1	(2%)	0	(0%)	0	(0%)
{Urinary syste	m}							
idney	renal cell carcinoma	< E 0 (50> 0%) 0	<50> (0%)		<50> (0%)		<50> (2%)
ırin bladd	transitional cell papilloma	<e 1 (</e 	50> 2%) 1	<50> (2%)		<50> (0%)	1	<50> (2%)
(Endocrine sys	tem)							
oituitary	adenoma	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	19> 33%) 22	<50> (44%)		<50> (32%)		<50> (24%)
	adenocarcinoma	1 (2%) 1	(2%)	0	(0%)	0	(0%)
thyroid	C-cell adenoma	<e 18 (</e 	50> 36%) 12	<50> (24%)		<50> (26%)		<50> (18%)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

: MALE

Organ	Findings	Group Name Control No. of animals on Study	50	444 ppm	50	1333 p	om 50	4000 p	pm 50
{Endocrine s	ystemi								
thyroid	follicular adenoma		<50> (0%)		50> 2%)		<50> (0%)	0	<50> (0%)
	C-cell carcinoma	1	(2%)	2 (4%)	4	(8%)	0	(0%)
	follicular adenocarcinoma	0	(0%)	0 (0%)	1	(2%)	0	(0%)
adrenal	pheochromocytoma		<50> (14%)		50> 10%)	8	<50> (16%)	2	<50> (4%)
	cortical adenoma	†	(2%)	0 (0%)	0	(0%)	0	(0%)
	pheochromocytoma:malignant	3	(6%)	1 (2%)	1	(2%)	2	(4%)
(Reproductiv	e system)								
testis	interstitial cell tumor		<50> (72%)	31 (50> 62%)	36	<50> (72%)	39	<50> (78%)
nammary gl	cystadenoma		<50> (2%)		50> 0%)		<50> (0%)	0	<50> (0%)
	fibroadenoma	1	(2%)	0 (0%)	1	(2%)	0	(0%)
orep/cli gl	adenoma		<50> (0%)		50> 2%)		<50> (0%)	0	<50> (0%)
(Nervous sys	tem)								
brain	glioma		<50> (0%)		50> 0%)	0	<50> (0%)	1	<50> (2%)
< a > b (c)	a : Number of animals examined at the site b : Number of animals with neoplasm c : b / a *	100	***************************************			Managara and Andrews			

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

Organ	Findings	Group Name Contro No. of animals on Study	1 50	444 ppm 50	1333 ppm 50	4000 ppm 50
(Nervous syst	em)					
orain	meningioma:malignant	0	<50> (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
pinal cord	glioma	0	<50> (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
(Special sens	e organs/appendage)					
Yymbal gl	Zmbal gland tumor:benign	1	<50> (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 2 (4%)
	Zymbal gland tumor:malignant	0	(0%)	0 (0%)	0 (0%)	1 (2%)
Musculoskele	tal system)					
oone	osteosarcoma	1	<50> (2%)	<49> 0 (0%)	<50> 1 (2%)	<48> 1 (2%)
(Body cavitie	ls.					
peritoneum	mesothelioma	1	<50> (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
<a>> b (c)	a : Number of animals examined at the site b : Number of animals with neoplasm c : b / a * 1	00				
/UDT005\						

(HPT085)

BA1S5

TABLE N 2

HISTOPATHOLOGICAL FINDINGS:

NEOPLASTIC LESIONS: FEMALE

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

SEX : FEMALE

Organ	Findings	Group Name Control No. of animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
{ ntegumentary	system/appandage)				
skin/app	squamous cell papilloma	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	trichoepithelioma	0 (0%)	1 (2%)	0 (0%)	0 (0%)
subcutis	fibroma	<50⟩ 1 (2%)	<50> 0 (0%)	<50> 3 (6%)	<50> 1 (2%)
	schwannoma	1 (2%)	0 (0%)	0 (0%)	0 (0%)
{Respiratory s	ystem)				
nasal cavit	lipoma	<50> 1 (2%)	<48> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
lung	bronchiolar-alveolar adenoma	<50> 2 (4%)	<50> 0 (0%)	<50> 1 (2%)	<50> 3 (6%)
{Hematopoietic	system				
spleen	hemangioma	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)
	mononuclear cell leukemia	5 (10%)	6 (12%)	7 (14%)	3 (6%)
(Digestive sys	tem)				
tongue	squamous cell papilloma	<50> 2 (4%)	<50> 0 (0%)	<50> 1 (2%)	<50> 2 (4%)
stomach	squamous cell papilloma	<50⟩ 0 (0%)	<50> 0 (0%)	<50> 2 (4%)	<50> 6 (12%)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1 SEX

: FEMALE

Organ	Findings	Group Name Control No. of animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
(Digestive sys	tem)				
stomach	squamous cell carcinoma	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
liver	hepatocellular adenoma	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
pancreas	islet cell adenoma	<50> 2 (4%)	<50> 1 (2%)	<50> 0 (0%)	<50> 2 (4%)
	islet cell adenocarcinoma	0 (0%)	1 (2%)	0 (0%)	0 (0%)
(Urinary syste	em)				
kidney	renal cell adenoma	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)	<50> 1 (2%)
	nephroblastoma	1 (2%)	0 (0%)	0 (0%)	0 (0%)
urin bladd	transitional cell papilloma	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
{Endocrine sys	tem)				
oituitary	adenoma	<50> 13 (26%)	<50> 11 (22%)	<50> 10 (20%)	<50> 12 (24%)
	adenocarcinoma	1 (2%)	1 (2%)	0 (0%)	3 (6%)
thyroid	C-cell adenoma	<50> 6 (12%)	<50> 5 (10%)	<50> 7 (14%)	<50> 4 (8%)
	follicular adenoma	0 (0%)	1 (2%)	0 (0%)	0 (0%)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCr|Cr|j[F344/DuCrj]
REPORT TYPE : A1

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

SEX

: FEMALE

Organ	Findings	Group Name Control No. of animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
(Endocrine sys	stem)				
hyroid	C-cell carcinoma	<50> 2 (4%)	<50> 0 (0%)	<50> 1 (2%)	<50> 2 (4%)
drenal	pheochromocytoma	<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)	<50> 1 (2%)
	pheochromocytoma:malignant	1 (2%)	1 (2%)	0 (0%)	1 (2%)
{Reproductive	system)				
ovary	adenoma	<50> 0 (0%)	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)
	granulosa cell tumor:malignant	0 (0%)	0 (0%)	1 (2%)	0 (0%)
ıterus	endometrial stromal polyp	<50> 3 (6%)	<50> 6 (12%)	<50> 10 (20%)	<50> 6 (12%)
	adenocarcinoma	1 (2%)	0 (0%)	1 (2%)	2 (4%)
	leiomyosarcoma	0 (0%)	0 (0%)	1 (2%)	0 (0%)
	histiocytic sarcoma	0 (0%)	0 (0%)	0 (0%)	1 (2%)
	endometrial stromal sarcoma	1 (2%)	2 (4%)	0 (0%)	0 (0%)
vagina	squamous cell papilloma	<50> 1 (2%)	<50> 0 (0%)	<50> 0 (0%)	<50> 0 (0%)
mammary gi	adenoma	<50> 1 (2%)	<50> 1 (2%)	<50> 0 (0%)	<50> 1 (2%)

STUDY NO. : 0739 ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)

ALL ANIMALS (0-105W)

REPORT TYPE : A1

: FEMALE SEX

dings	Group Name Contro No. of animals on Study	50	444 pp	m 50	1333 p	pm 50	4000 p	pm 50
eml								
proadenoma	14	<50> (28%)	12	<50> (24%)	5	<50> (10%)	4	<50> (8%)
enocarcinoma	1	(2%)	0	(0%)	0	(0%)	1	(2%)
enoma	1	<50> (2%)	0	<50> (0%)	3	<50> (6%)	0	<50> (0%)
oma	1	<50> (2%)	0	<50> (0%)	1	<50> (2%)	0	<50> (0%)
oroma	0	<50> (0%)	1	<50> (2%)	0	<50> (0%)	0	<50> (0%)
othelioma	0	(0%)	1	(2%)	0	(0%)	0	(0%)
othelioma Number of anim	nals examined at the site nals with neoplasm c : b / a =	o wals examined at the site		0 (0%) 1 mals examined at the site	0 (0%) 1 (2%)	0 (0%) 1 (2%) 0 nals examined at the site	0 (0%) 1 (2%) 0 (0%) Mals examined at the site	0 (0%) 1 (2%) 0 (0%) 0 als examined at the site

(HPT085)

BAIS5

TABLE O 1

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS: MALE

STUDY No. : 0739

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE: 1

BAIS5

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]

SEX : MALE

Group Name 444 ppm 1333 ppm 4000 ppm Control SITE: skin/appendage TUMOR : trichoepithelioma Tumor rate 0/50 (0.0) Overall rates (a) 3/50 (6.0) 0/50 (0.0) 0/50 (0.0) Adjusted rates (b) 7. 69 0. 0 0. 0 0. 0 0/36 (0.0) Terminal rates (c) 3/39 (7.7) 0/36 (0.0) 0/41 (0.0) Statistical analysis Peto test Standard method (d) P = ----Prevalence method (d) P = 0.9782P = -----Combined analysis (d) Cochran-Armitage test(e) P = 0.1043Fisher Exact test(e) P = 0.1212P = 0.1212P = 0.1212SITE : skin/appendage TUMOR : squamous cell papilloma, trichoepithelioma, keratoacanthoma Tumor rate Overall rates (a) 5/50 (10, 0) 2/50 (4.0) 2/50 (4. 0) 1/50 (2.0) Adjusted rates (b) 12.82 4. 55 5. 56 2. 44 2/36 (5. 6) 1/41 (2.4) Terminal rates (c) 5/39 (12.8) 1/36 (2.8) Statistical analysis Peto test Standard method (d) P = ----Prevalence method (d) P = 0.9344Combined analysis (d) P = -----Cochran-Armitage test(e) P = 0.1498Fisher Exact test(e) P = 0.2180P = 0.2180P = 0.1022SITE : skin/appendage TUMOR : squamous cell papilloma, trichoepithelioma, keratoacanthoma, squamous cell carcinoma Tumor rate 2/50 (4.0) Overall rates (a) 5/50 (10. 0) 3/50 (6.0) 1/50 (2.0) Adjusted rates (b) 12. 82 6. 82 5. 56 2. 44 Terminal rates (c) 5/39 (12.8) 2/36 (5. 6) 2/36 (5. 6) 1/41 (2.4) Statistical analysis Peto test Standard method (d) P = ----P = 0.9531Prevalence method (d) Combined analysis (d) P = ----Cochran-Armitage test(e) P = 0.1148Fisher Exact test(e) P = 0.3575P = 0.2180P = 0.1022

STUDY No. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : MALE

PAGE: 2

Group Name	Control	444 ppm	1333 ppm	4000 ppm
	SITE : subcutis TUMOR : fibroma			
Tumor rate Overall rates(a)	6/50 (12. 0)	5/50 (10. 0)	2/50 (4. 0)	4/50 (8. 0)
Adjusted rates(b) Terminal rates(c) Statistical analysis	10. 26 4/39 (10. 3)	11. 11 4/36 (11. 1)	2. 78 1/36 (2. 8)	9. 76 4/41 (9. 8)
Peto test Standard method(d) Prevalence method(d) Combined analysis(d) Cochran-Armitage test(e)	P = 0. 9089 P = 0. 5147 P = 0. 7491 P = 0. 5491			
Fisher Exact test(e)	1 - 0. 5451	P = 0.5000	P = 0.1343	P = 0.3703
Tomas usha	SITE : subcutis TUMOR : lipoma			
Tumor rate Overall rates(a)	3/50 (6. 0)	0/50 (0. 0)	0/50 (0. 0)	0/50 (0. 0)
Adjusted rates(b) Terminal rates(c) Statistical analysis	7. 69 3/39 (7. 7)	0. 0 0/36 (0. 0)	0. 0 0/36 (0. 0)	0. 0 0/41 (0. 0)
Peto test Standard method(d) Prevalence method(d) Combined analysis(d)	P = P = 0. 9782 P =			
Cochran-Armitage test(e) Fisher Exact test(e)	P = 0. 1043	P = 0. 1212	P = 0. 1212	P = 0. 1212
T	SITE : subcutis TUMOR : fibroma, fibrosarcoma			
Tumor rate Overali rates(a)	6/50 (12. 0)	5/50 (10. 0)	2/50 (4. 0)	5/50 (10. 0)
Adjusted rates(b) Terminal rates(c) Statistical analysis	10. 26 4/39 (10. 3)	11. 11 4/36 (11. 1)	2. 78 1/36 (2. 8)	12. 20 5/41 (12. 2)
Peto test Standard method(d) Prevalence method(d) Combined analysis(d)	P = 0. 9089 P = 0. 3477 P = 0. 6038			
Cochran-Armitage test(e) Fisher Exact test(e)	P = 0. 8596	P = 0.5000	P = 0. 1343	P = 0. 5000

STUDY No. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : MALE PAGE: 3

Group Name	Control	444 ppm	1333 ppm	4000 ppm	
	SITE : subcutis TUMOR : lipoma,liposaro	oma			
Tumor rate Overall rates(a)	3/50 (6. 0)	0/50 (0.0)	0/50 (0. 0)	1/50 (2. 0)	
Adjusted rates (b)	7. 69	0.0	0/50 (0. 0)	2. 44	
Terminal rates (c)	3/39 (7. 7)	0/36 (0. 0)	0/36 (0. 0)	1/41 (2. 4)	
Statistical analysis Peto test					
Standard method(d)	P =				
Prevalence method(d) Combined analysis(d)	P = 0. 7092 P =				
Cochran-Armitage test(e)	P = 0. 5630				
Fisher Exact test(e)		P = 0.1212	P = 0. 1212	P = 0.3087	
_	SITE : lung TUMOR : bronchiolar-alv	eolar adenoma			
Tumor rate Overall rates(a)	1/50 (2. 0)	1/50 (2. 0)	0/50 (0. 0)	3/50 (6. 0)	
Adjusted rates (b)	2. 56	2. 78	0. 0	7. 32	
Terminal rates(c) Statistical analysis	1/39 (2. 6)	1/36 (2. 8)	0/36 (0. 0)	3/41 (7. 3)	
Peto test					
Standard method(d)	P =				
Prevalence method(d) Combined analysis(d)	P = 0.0917 P =				
Cochran-Armitage test(e)	P = 0. 1274				
Fisher Exact test(e)		P = 0. 7525	P = 0.5000	P = 0.3087	
Tumor rate	SITE : lung TUMOR : bronchiolar-alv	eolar adenoma, bronchiolar—alveolar carcinom:	1		
Overall rates (a)	1/50 (2.0)	1/50 (2.0)	1/50 (2. 0)	3/50 (6. 0)	
Adjusted rates (b)	2. 56	2. 78	2. 78	7. 32	
Terminal rates(c) Statistical analysis	1/39 (2. 6)	1/36 (2.8)	1/36 (2.8)	3/41 (7. 3)	
Peto test					
Standard method(d) Prevalence method(d)	P = P = 0. 1159				
Combined analysis (d)	P =				
Cochran-Armitage test(e)	P = 0.1721	D - 0 7505	D = 0.7505	D = 0.0007	
Fisher Exact test(e)		P = 0.7525	P = 0. 7525	P = 0.3087	

STUDY No. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : MALE

Group Name	Control	444 ppm	1333 ppm	4000 ppm	
	SITE : spleen				
Tumor rate	TUMOR : mononuclear cell le	eukemıa			
Overall rates (a)	4/50 (8. 0)	5/50 (10. 0)	5/50 (10. 0)	2/50 (4. 0)	
Adjusted rates (b)	5. 13	5. 56	8. 33	2. 44	
Terminal rates (c)	2/39 (5. 1)	2/36 (5. 6)	3/36 (8. 3)	1/41 (2. 4)	
Statistical analysis					
Peto test Standard method(d)	P = 0.7990				
Prevalence method (d)	P = 0.7990 P = 0.7475				
Combined analysis (d)	P = 0. 8680				
Cochran-Armitage test (e)	P = 0. 2959				
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.3389	
-	SITE : tongue TUMOR : squamous cell papi	loma, squamous cell carcinoma			
Tumor rate Overall rates(a)	0/50 (0. 0)	0/50 (0. 0)	1/50 (2. 0)	3/50 (6. 0)	
Adjusted rates (b)	0.0	0/30 (0.0)	0.0	7. 32	
Terminal rates (c)	0/39 (0. 0)	0/36 (0. 0)	0/36 (0. 0)	3/41 (7. 3)	
Statistical analysis					
Peto test					
Standard method(d)	P = 0.3690				
Prevalence method(d) Combined analysis(d)	P = 0.0040**? P = 0.0146*				
Cochran-Armitage test (e)	P = 0.0139*				
Fisher Exact test(e)		P = N. C.	P = 0.5000	P = 0.1212	
	SITE : stomach TUMOR : squamous cell papi	loma			
Tumor rate					
Overall rates (a)	0/50 (0. 0)	1/50 (2. 0)	1/50 (2. 0)	10/50 (20. 0)	
Adjusted rates (b)	0. 0 0/39 (0. 0)	2. 78	2. 78	24. 39 10/41 (24. 4)	
Terminal rates(c) Statistical analysis	0/39 (0.0)	1/36 (2. 8)	1/36 (2.8)	10/41 (24. 4)	
Peto test					
Standard method(d)	P =				
Prevalence method(d)	P < 0. 0001**				
Combined analysis (d)	P =				
Cochran-Armitage test(e)	P < 0. 0001**	D 0 5000	D 0 5000	D 0.0000	
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.0006**	

(HPT360A)

STUDY No. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : MALE PAGE: 5

Group Name	Control	444 ppm	1333 ppm	4000 ppm	
	SITE : stomach				
Tumor rate	TUMOR : squamous cell papilloma,	squamous cell carcinoma			
Overall rates (a)	1/50 (2.0)	1/50 (2. 0)	1/50 (2. 0)	10/50 (20. 0)	
Adjusted rates (b)	2. 56	2. 78	2. 78	24. 39	
Terminal rates(c)	1/39 (2. 6)	1/36 (2. 8)	1/36 (2. 8)	10/41 (24. 4)	
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**		D 0 7505	D 0 0000	
Fisher Exact test(e)		P = 0. 7525	P = 0. 7525	P = 0. 0039**	
	SITE : liver				
	TUMOR : hepatocellular adenoma h	epatocellular carcinoma			
Tumor rate	0.750.7 0.03	1 (70 (0 0)	2/50/ 5.0	+ /50 / 0 0	
Overall rates(a) Adjusted rates(b)	0/50 (0. 0) 0. 0	1/50 (2. 0) 2. 78	3/50 (6. 0) 8. 33	1/50 (2. 0) 2. 44	
Terminal rates (c)	0/39 (0. 0)	1/36 (2. 8)	3/36 (8. 3)	1/41 (2. 4)	
Statistical analysis		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,000		
Peto test					
Standard method (d)	P = P = 0.3771				
Prevalence method(d) Combined analysis(d)	P = U. 3771 P =				
Cochran-Armitage test (e)	P = 0. 7214				
Fisher Exact test(e)		P = 0.5000	P = 0.1212	P = 0.5000	
	SITE : pancreas				
Tumor rate	TUMOR : islet cell adenoma				
Overall rates (a)	6/50 (12. 0)	4/50 (8. 0)	3/50 (6. 0)	5/50 (10. 0)	
Adjusted rates (b)	13. 95	8. 51	8. 33	11. 11	
Terminal rates (c)	4/39 (10. 3)	3/36 (8. 3)	3/36 (8. 3)	3/41 (7. 3)	
Statistical analysis					
Peto test Standard method(d)	P =				
Prevalence method (d)	P = 0.5330				
Combined analysis (d)	P =				
Cochran-Armitage test(e)	P = 0.9719				
Fisher Exact test(e)		P = 0.3703	P = 0.2435	P = 0.5000	

STUDY No. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : MALE

Group Name	Control	444 ppm	1333 ppm	4000 ppm	
	SITE : pancreas				
Tumor rate	TUMOR : islet cell adenoma, isl	et cell adenocarcinoma			
Overall rates (a)	6/50 (12. 0)	5/50 (10. 0)	3/50 (6. 0)	5/50 (10. 0)	
Adjusted rates (b)	13. 95	11. 11	8. 33	11. 11	
Terminal rates (c)	4/39 (10. 3)	4/36 (11. 1)	3/36 (8. 3)	3/41 (7. 3)	
Statistical analysis					
Peto test	_				
Standard method (d)	P =				
Prevalence method(d) Combined analysis(d)	P = 0. 5962 P =				
Cochran-Armitage test (e)	P = 0. 8494				
Fisher Exact test (e)	1 - 0. 0404	P = 0.5000	P = 0.2435	P = 0.5000	
Tumor rate Overall rates (a) Adjusted rates (b) Terminal rates (c) Statistical analysis Peto test Standard method (d) Prevalence method (d) Combined analysis (d) Cochran-Armitage test (e) Fisher Exact test (e)	SITE : pituitary gland TUMOR : adenoma 16/49 (32. 7) 30. 00 10/38 (26. 3) P = 0. 8918 P = 0. 8999 P = 0. 9614 P = 0. 1052	22/50 (44. 0) 39. 02 14/36 (38. 9) P = 0. 1701	16/50 (32. 0) 33. 33 12/36 (33. 3) P = 0. 6119	12/50 (24. 0) 22. 22 8/41 (19. 5) P = 0. 2320	
	SITE : pituitary gland TUMOR : adenoma, adenocarcinoma				
Tumor rate	TOMOR . adenoma, adenocal cinoma				
Overall rates (a)	17/49 (34. 7)	23/50 (46. 0)	16/50 (32. 0)	12/50 (24. 0)	
Adjusted rates(b)	30. 00	41. 67	33. 33	22. 22	
Terminal rates (c)	10/38 (26. 3)	15/36 (41.7)	12/36 (33. 3)	8/41 (19. 5)	
Statistical analysis					
Peto test	D = 0 0264				
Standard method(d) Prevalence method(d)	P = 0. 9264 P = 0. 9187				
Combined analysis (d)	P = 0. 9762				
Cochran-Armitage test (e)	P = 0. 0650				
Fisher Exact test(e)		P = 0.1733	P = 0.4716	P = 0. 1716	

(HPT360A)

STUDY No. : 0739

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
SEX : MALE

Group Name	Control	444 ppm	1333 ppm	4000 ppm	
	SITE : thyroid				
Tumor rate	TUMOR : C-cell adenoma				
Overall rates (a)	18/50 (36. 0)	12/50 (24. 0)	13/50 (26. 0)	9/50 (18. 0)	
Adjusted rates(b)	41. 03	24. 49	31. 71	21. 95	
Terminal rates (c)	16/39 (41. 0)	8/36 (22. 2)	11/36 (30. 6)	9/41 (22. 0)	
Statistical analysis Peto test					
Standard method (d)	P =				
Prevalence method (d)	P = 0. 9672				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0.0876	0 4070	D 0 4007	0.0050	
Fisher Exact test(e)		P = 0. 1376	P = 0. 1937	P = 0. 0352*	
	SITE : thyroid				
Tumor rate	TUMOR : C-cell carcinoma				
Overall rates (a)	1/50 (2. 0)	2/50 (4. 0)	4/50 (8. 0)	0/50 (0.0)	
Adjusted rates (b)	2. 56	5. 56	8. 33	0. 0	
Terminal rates (c)	1/39 (2. 6)	2/36 (5. 6)	3/36 (8. 3)	0/41 (0.0)	
Statistical analysis					
Peto test Standard method(d)	P = 0.3883				
Prevalence method (d)	P = 0. 8552				
Combined analysis(d)	P = 0.8457				
Cochran-Armitage test(e)	P = 0.3348				
Fisher Exact test(e)		P = 0. 5000	P = 0. 1811	P = 0. 5000	
	SITE : thyroid				
	TUMOR : C-cell adenoma, C-cell c	arcinoma			
Tumor rate	40 (50 (00 0)	4.470.4.00.0	47 (50 (04 0)	0 (50 (40 0)	
Overall rates(a) Adjusted rates(b)	19/50 (38. 0)	14/50 (28. 0)	17/50 (34. 0)	9/50 (18. 0) 21. 95	
Terminal rates (c)	43. 59 17/39 (43. 6)	29. 27 10/36 (27. 8)	40. 00 14/36 (38. 9)	9/41 (22. 0)	
Statistical analysis	117 00 (40. 07	10/00 (21. 0/	17,00(00. 0)	0, 41 (LE. 0)	
Peto test					
Standard method(d)	P = 0.3883				
Prevalence method(d)	P = 0. 9864				
Combined analysis (d)	P = 0. 9861				
Cochran-Armitage test(e) Fisher Exact test(e)	P = 0. 0422*	P = 0.1976	P = 0.4176	P = 0. 0220*	
TONG! EXACT COST (C)		1 - 0. 1010	1 - 0. 4110	, - U. ULLUT	

(HPT360A)

STUDY No. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : MALE PAGE: 8

Group Name	Control	444 ppm	1333 ppm	4000 ppm	
	SITE : adrenal gland TUMOR : pheochromocytoma				
Tumor rate		5 (50 (40 0)	0 (50 / 40 0)	0 (50 (4.0)	
Overall rates(a) Adjusted rates(b)	7/50 (14. 0) 15. 91	5/50 (10. 0) 11. 11	8/50 (16. 0) 21. 05	2/50 (4. 0) 4. 65	
Terminal rates(c) Statistical analysis Peto test	5/39 (12. 8)	3/36 (8. 3)	7/36 (19. 4)	1/41 (2. 4)	
Standard method(d)	P =				
Prevalence method(d) Combined analysis(d)	P = 0. 9438 P =				
Cochran-Armitage test (e)	P = 0. 1127				
Fisher Exact test(e)		P = 0.3798	P = 0.5000	P = 0.0798	
_	SITE : adrenal gland TUMOR : pheochromocytoma:malig	nant			
Tumor rate Overall rates (a)	3/50 (6. 0)	1/50 (2. 0)	1/50 (2. 0)	2/50 (4. 0)	
Adjusted rates(b)	5. 13	2. 78	2. 78	4. 88	
Terminal rates(c) Statistical analysis Peto test	2/39 (5. 1)	1/36 (2. 8)	1/36 (2.8)	2/41 (4. 9)	
Standard method(d) Prevalence method(d)	P = 1.0000 ? P = 0.4023				
Combined analysis (d)	P = 0. 5404				
Cochran-Armitage test(e) Fisher Exact test(e)	P = 0. 9342	P = 0.3087	P = 0.3087	P = 0.5000	
Tumou unbo	SITE : adrenal gland TUMOR : pheochromocytoma, pheoc	hromocytoma:malignant			
Tumor rate Overall rates(a)	10/50 (20. 0)	6/50 (12. 0)	9/50 (18. 0)	4/50 (8. 0)	
Adjusted rates (b)	20. 45	13. 33	23. 68	9. 30	
Terminal rates(c) Statistical analysis Peto test	7/39 (17. 9)	4/36 (11. 1)	8/36 (22. 2)	3/41 (7. 3)	
Standard method (d)	P = 1.0000 ?				
Prevalence method(d) Combined analysis(d)	P = 0.8989 P = 0.9257				
Cochran-Armitage test(e)	P = 0. 1464				
Fisher Exact test(e)		P = 0.2070	P = 0.5000	P = 0. 0739	

STUDY No. : 0739

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]

SEX : MALE PAGE : 9

Group Name	Control	444 ppm	1333 ppm	4000 ppm	
	SITE : testis				
	TUMOR : interstitial cell t	umor			
umor rate	(()			(()	
Overall rates (a)	36/50 (72. 0)	31/50 (62. 0)	36/50 (72. 0)	39/50 (78. 0)	
Adjusted rates(b)	84. 62	72. 97	91. 67	88. 37	
Terminal rates(c)	33/39 (84. 6)	26/36 (72. 2)	33/36 (91. 7)	36/41 (87. 8)	
tatistical analysis					
Peto test					
Standard method (d)	P =				
Prevalence method(d) Combined analysis(d)	P = 0. 1904 P =				
Combined analysis(g) Cochran-Armitage test(e)	P = 0. 2033				
Fisher Exact test(e)	P = 0. 2033	P = 0.1976	P = 0.5880	P = 0.3224	
FISHER EXACT TEST(E)		r - 0. 1970	P - 0. 3000	r - u. 3224	
	SITE : Zymbal gland				
		enign ,Zymbal gland tumor:malignant			
umor rate	Tomon . Empai State Canot . E	on the termon Brane (amo) man brane			
Overall rates (a)	1/50 (2.0)	0/50 (0. 0)	1/50 (2.0)	3/50 (6. 0)	
Adjusted rates (b)	2. 33	0. 0	2. 63	2. 44	
Terminal rates (c)	0/39 (0. 0)	0/36(0.0)	0/36 (0. 0)	1/41 (2. 4)	
tatistical analysis	3, 33 (3. 3.	5, 55 (5, 5,	0,000	77 17 1 2 17	
Peto test					
Standard method(d)	P = 0.0189* ?				
Prevalence method (d)	P = 0. 3543				
Combined analysis (d)	P = 0. 0584				
Cochran-Armitage test(e)	P = 0.0744				
Fisher Exact test(e)		P = 0.5000	P = 0.7525	P = 0.3087	
PT360A)	MATANIA AMIN'NY TANÀNA MANDRISTRA NY INDRESERVA NA BANDANA AMIN'NY INDRESERVA NA BANDANA AMIN'NY INDRESERVA NA				ВА

(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 out comes can not estimated or this P-value is beyond the estimated P-value.

-----: There is no data which should be statistical analysis.

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

N.C.: Statistical value cannot be calculated and was not significant.

TABLE O 2

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS: FEMALE

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE: 10

BA1S5

STUDY No. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : FEMALE

Group Name	Control	444 ppm	1333 ppm	4000 ррм	
	SITE : subcutis TUMOR : fibroma				
Tumor rate					
Overall rates (a)	1/50 (2. 0)	0/50 (0. 0)	3/50 (6. 0)	1/50 (2. 0)	
Adjusted rates(b) Terminal rates(c)	2. 50 1/40 (2. 5)	0. 0 0/40 (0. 0)	6. 82 2/43 (4. 7)	2. 33 1/43 (2. 3)	
Statistical analysis	W 10 (2) 5/	5, 75 (5. 5.	2, 10 , 11 , 1	,, ,, ,,	
Peto test Standard method(d)	P =				
Prevalence method (d)	P = 0. 4082				
Combined analysis(d)	P =				
Cochran-Armitage test(e) Fisher Exact test(e)	P = 0. 8204	P = 0. 5000	P = 0.3087	P = 0.7525	
Tranci Ladet (65 (6)		r - 0. 3000	r - 0. 3001	1 - 0.1323	
	SITE : subcutis				
Tumor rate	TUMOR : fibroma, fibrosarcoma				
Overall rates (a)	1/50 (2.0)	0/50 (0.0)	3/50 (6. 0)	1/50 (2. 0)	
Adjusted rates (b)	2. 50	0. 0	6. 82	2. 33	
Terminal rates(c) Statistical analysis	1/40 (2. 5)	0/40 (0.0)	2/43 (4. 7)	1/43 (2. 3)	
Peto test					
Standard method(d)	P =				
Prevalence method(d) Combined analysis(d)	P = 0. 4082 P =				
Cochran-Armitage test (e)	P = 0. 8204				
Fisher Exact test(e)		P = 0.5000	P = 0.3087	P = 0.7525	
	SITE : lung				
	TUMOR: bronchiolar-alveolar adend	oma			
fumor rate	2/50/ 4.0)	0/50/ 0.0	1/50/ 0.0	0./50./ . C. 0\	
Overall rates (a) Adjusted rates (b)	2/50 (4. 0) 5. 00	0/50 (0. 0) 0. 0	1/50 (2. 0) 2. 27	3/50 (6. 0) 6. 98	
Terminal rates (c)	2/40 (5. 0)	0/40 (0. 0)	0/43 (0. 0)	3/43 (7. 0)	
tatistical analysis					
Peto test Standard method(d)	P =				
Prevalence method(d)	P = 0.1265				
Combined analysis (d)	P =				
Cochran-Armitage test(e) Fisher Exact test(e)	P = 0.2124	P = 0. 2475	P = 0.5000	P = 0.5000	

STUDY No. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : FEMALE PAGE: 11

Group Name	Control	444 ppm	1333 ррт	4000 ppm	
	SITE : lung	adenoma, bronchiolar-alveolar carcinom	•		
Tumor rate	TOWOR . DIGITALISTAL ALVEGIAL	auchoma, pronchioral alveoral carcinom	a		
Overall rates (a)	2/50 (4. 0)	0/50 (0. 0)	1/50 (2. 0)	3/50 (6. 0)	
Adjusted rates(b) Terminal rates(c)	5. 00 2/40 (5. 0)	0. 0 0/40 (0. 0)	2. 27 0/43 (0. 0)	6. 98 3/43 (7. 0)	
Statistical analysis	2/40 (3. 0)	0740 (0. 0)	0/43 (0. 0/	3/43 (1. 0)	
Peto test Standard method(d)	P =				
Prevalence method (d)	P = 0. 1265				
Combined analysis (d)	P =				
Cochran-Armitage test(e) Fisher Exact test(e)	P = 0.2124	P = 0.2475	P = 0.5000	P = 0.5000	
		. 0. 2410	1 0. 0000	1 0.0000	······································
	SITE : spleen				
Tumor rate	TUMOR : mononuclear cell leu	(em i a			
Overall rates (a)	5/50 (10. 0)	6/50 (12. 0)	7/50 (14. 0)	3/50 (6. 0)	
Adjusted rates (b)	5. 00	5. 00	4. 65	6. 98	
Terminal rates(c) Statistical analysis	2/40 (5. 0)	2/40 (5. 0)	2/43 (4. 7)	3/43 (7. 0)	
Peto test					
Standard method(d)	P = 0.9654				
Prevalence method(d) Combined analysis(d)	P = 0. 3103 P = 0. 8404				
Cochran-Armitage test (e)	P = 0.3464				
Fisher Exact test(e)		P = 0.5000	P = 0.3798	P = 0.3575	
	22 FOR AND				
	SITE : stomach				
Tumor rate	TUMOR : squamous cell papill	OMA .			
Overall rates (a)	0/50 (0.0)	0/50 (0. 0)	2/50 (4. 0)	6/50 (12. 0)	
Adjusted rates (b)	0. 0	0. 0	4. 65	13. 95	
Terminal rates(c) Statistical analysis	0/40 (0.0)	0/40 (0.0)	2/43 (4. 7)	6/43 (14. 0)	
Peto test					
Standard method(d)	P =				
Prevalence method (d)	P = 0.0006** P =				
Combined analysis (d) Cochran-Armitage test (e)	P = 0.0004**				
Fisher Exact test(e)		P = N. C.	P = 0.2475	P = 0.0133*	

STUDY No. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : FEMALE PAGE: 12

Group Name	Control	444 ppm	1333 ppm	4000 ppm	
	SITE : stomach	a managa a a la a a sa inama			
Tumor rate	TUMOR : squamous cell papilloma	s squamous cerr carcinoma			
Overall rates (a)	0/50 (0.0)	1/50 (2. 0)	2/50 (4. 0)	6/50 (12. 0)	
Adjusted rates(b) Terminal rates(c)	0. 0 0/40 (0. 0)	2. 50 1/40 (2. 5)	4. 65 2/43 (4. 7)	13. 95 6/43 (14. 0)	
Statistical analysis	0/40 (0.0)	1740 (2. 3)	2/43 (4. 1)	0743 (14. 0)	
Peto test					
Standard method(d) Prevalence method(d)	P = P = 0. 0022**				
Combined analysis (d)	P =				
Cochran-Armitage test(e)	P = 0.0019**				
Fisher Exact test(e)		P = 0. 5000	P = 0. 2475	P = 0. 0133*	
Tumpy yets	SITE : pituitary gland TUMOR : adenoma				
Tumor rate Overall rates(a)	13/50 (26. 0)	11/50 (22. 0)	10/50 (20. 0)	12/50 (24. 0)	
Adjusted rates(b)	26. 19	25. 00	23. 26	25. 58	
Terminal rates(c) Statistical analysis	10/40 (25. 0)	10/40 (25. 0)	10/43 (23. 3)	11/43 (25. 6)	
Peto test	D = 0.0445				
Standard method(d) Prevalence method(d)	P = 0. 6445 P = 0. 5215				
Combined analysis (d)	P = 0. 5812				
Cochran-Armitage test(e)	P = 0.9809	D 0 4070	D 0.8470	D 0 5000	
Fisher Exact test(e)		P = 0. 4076	P = 0. 3176	P = 0. 5000	
	SITE : pituitary gland TUMOR : adenocarcinoma				
Tumor rate					
Overall rates(a) Adjusted rates(b)	1/50 (2. 0) 2. 50	1/50 (2. 0) 2. 50	0/50 (0. 0) 0. 0	3/50 (6. 0) 4. 65	
Terminal rates (c)	2. 50 1/40 (2. 5)	2. 50 1/40 (2. 5)	0. 0	2/43 (4. 7)	
Statistical analysis	•			_,	
Peto test	D = 0 1200				
Standard method(d) Prevalence method(d)	P = 0. 1389 P = 0. 2140				
Combined analysis(d)	P = 0. 0866				
Cochran-Armitage test (e)	P = 0.1274	D 0.7505	0. 5000	0.0007	
Fisher Exact test(e)		P = 0.7525	P = 0.5000	P = 0.3087	

STUDY No. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : FEMALE PAGE: 13

Group Name	Control	444 ppm	1333 ppm	4000 ppm
	SITE : pituitary gland			
Tumor rate	TUMOR : adenoma adenocarcinoma			
Overall rates (a)	14/50 (28. 0)	12/50 (24. 0)	10/50 (20. 0)	15/50 (30. 0)
Adjusted rates(b)	28. 57	27. 50	23. 26	30. 23
Terminal rates (c)	11/40 (27. 5)	11/40 (27. 5)	10/43 (23. 3)	13/43 (30. 2)
Statistical analysis Peto test				
Standard method (d)	P = 0.3619			
Prevalence method(d)	P = 0.4133			
Combined analysis(d)	P = 0.3765			
Cochran-Armitage test(e)	P = 0.6010	D = 0 4100	D = 0.0415	D 0 F000
Fisher Exact test(e)		P = 0. 4100	P = 0. 2415	P = 0.5000
	SITE : thyroid			
	TUMOR : C-cell adenoma			
Tumor rate	0./50./ +0.0)	5 (50 (40 0)	7/50/ 44.03	4/50 / 0.0
Overall rates(a) Adjusted rates(b)	6/50 (12. 0) 13. 64	5/50 (10. 0) 12. 50	7/50 (14. 0) 15. 56	4/50 (8. 0) 9. 30
Terminal rates (c)	5/40 (12. 5)	5/40 (12. 5)	6/43 (14. 0)	4/43 (9. 3)
Statistical analysis	07 40 (12. 07	07 40 (12. 0)	0/ 40 (14. 0/	47 40 (0. 07
Peto test				
Standard method(d)	P =			
Prevalence method(d)	P = 0. 7428 P =			
Combined analysis(d) Cochran-Armitage test(e)	P = 0. 5386			
Fisher Exact test(e)	1 - 0. 3300	P = 0.5000	P = 0.5000	P = 0.3703
	SITE : thyroid			
Tumor rate	TUMOR : C-cell adenoma, C-cell ca	arcinoma		
Overall rates (a)	8/50 (16. 0)	5/50 (10. 0)	8/50 (16. 0)	6/50 (12. 0)
Adjusted rates (b)	18. 18	12. 50	17. 78	12. 77
Terminal rates (c)	7/40 (17. 5)	5/40 (12. 5)	7/43 (16. 3)	5/43 (11. 6)
Statistical analysis				
Peto test Standard method(d)	P =			
Standard method(d) Prevalence method(d)	P = 0. 6387			
Combined analysis (d)	P =			
Cochran-Armitage test(e)	P = 0. 7783			
Fisher Exact test(e)		P = 0.2768	P = 0.6071	P = 0.3871

STUDY No. : 0739

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE: 14

BAIS5

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : FEMALE

Group Name	Control	444 ppm	1333 ppm	4000 ppm	
	SITE : uterus				
Tumor rate	TUMOR : endometrial stromal polyp				
Overall rates (a)	3/50 (6.0)	6/50 (12. 0)	10/50 (20. 0)	6/50 (12. 0)	
Adjusted rates (b)	7. 50	12. 50	21. 74	11. 63	
Terminal rates(c)	3/40 (7. 5)	5/40 (12. 5)	9/43 (20. 9)	5/43 (11. 6)	
tatistical analysis					
Peto test					
Standard method(d)	P = 0. 2521				
Prevalence method(d)	P = 0. 3777				
Combined analysis (d) Cochran-Armitage test (e)	P = 0. 3091 P = 0. 5922				
Fisher Exact test(e)	P = 0. 5922	P = 0. 2435	P = 0. 0357*	P = 0. 2435	
Traner Lxact (est (e)		r = 0. 2400	r = 0. 0001+	1 - 0. 2433	
	SITE : mammary gland				
	TUMOR : fibroadenoma				
Tumor rate	***************************************	40 (50 (04 0)	T (TO (10 0)	* (FO O O)	
Overall rates (a) Adjusted rates (b)	14/50 (28. 0) 28. 57	12/50 (24. 0) 26. 67	5/50 (10. 0) 11. 63	4/50 (8. 0) 9. 30	
Terminal rates (c)	11/40 (27. 5)	9/40 (22.5)	5/43 (11. 6)	4/43 (9. 3)	
Statistical analysis	11/40 (21. 3)	3740 (22. 3)	37 43 (11. 0)	47 40 (3. 3)	
Peto test					
Standard method(d)	P =				
Prevalence method(d)	P = 0.9984				
Combined analysis(d)	P =				
Cochran-Armitage test(e)	P = 0. 0068**				
Fisher Exact test(e)		P = 0. 4100	P = 0. 0198*	P = 0.0087**	
	SITE : mammary gland				
	TUMOR : adenoma, fibroadenoma				
umor rate	45 (50 / 00 0)	10 (70 (00 0)	T (50 / 10 0)	5 (50 / 40 0)	
Overall rates (a)	15/50 (30. 0)	13/50 (26. 0)	5/50 (10. 0)	5/50 (10. 0)	
Adjusted rates(b) Terminal rates(c)	30. 61 11/40 (27. 5)	28. 89 10/40 (25. 0)	11. 63 5/43 (11. 6)	11. 63 5/43 (11. 6)	
tatistical analysis	11/40 (21. 3)	10/40 (25. 0)	0/40 (11. 0)	5/45 (11. 0)	
Peto test					
Standard method(d)	P =				
Prevalence method (d)	P = 0. 9976				
Combined analysis (d)	P =				
Cochran-Armitage test(e)	P = 0.0091**				
Fisher Exact test(e)		P = 0.4120	P = 0.0114*	P = 0.0114*	

STUDY No. : 0739

(HPT360A)

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : FEMALE

Group Name 1333 ppm 4000 ppm Control 444 ppm SITE : mammary gland TUMOR : adenoma, fibroadenoma, adenocarcinoma Tumor rate Overall rates (a) 15/50 (30. 0) 13/50 (26. 0) 5/50 (10. 0) 6/50 (12.0) Adjusted rates (b) 30. 61 28. 89 11. 63 11. 63 Terminal rates (c) 11/40 (27.5) 10/40 (25.0) 5/43 (11.6) 5/43 (11.6) Statistical analysis Peto test Standard method (d) P = 0.1381Prevalence method(d) P = 0.9972Combined analysis (d) P = 0.9918Cochran-Armitage test(e) P = 0.0222*Fisher Exact test(e) P = 0.4120P = 0.0114*P = 0.0239*SITE : preputial/clitoral gland TUMOR : adenoma Tumor rate 0/50 (0.0) Overall rates (a) 1/50 (2, 0) 3/50 (6.0) 0/50 (0.0) Adjusted rates (b) 0. 0 0. 0 4. 65 0. 0 Terminal rates (c) 0/40 (0.0) 0/40 (0.0) 2/43 (4.7) 0/43 (0.0) Statistical analysis Peto test Standard method (d) P = 0.7167Prevalence method (d) P = 0.4922Combined analysis (d) P = 0.7032Cochran-Armitage test (e) P = 0.5628Fisher Exact test(e) P = 0.5000P = 0.3087P = 0.5000

PAGE: 15

BAIS5

(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 out comes can not estimated or this P-value is beyond the estimated P-value.

-----: There is no data which should be statistical analysis.

N. C.: Statistical value cannot be calculated and was not significant.

TABLE P 1

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR: MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

SEX : MALE

Organ	Findings	Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
{Integumenta	ry system/appandage)				
subcutis	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 1
{Respiratory	system)				
nasal cavit	leukemic cell infiltration	<50> 0	<49> 0	<50> 1	<48> 0
lung	leukemic cell infiltration	<50> 2	<50> 5	<50> 5	<50> 1
	metastasis:adrenal tumor	1	0	1	0
	metastasis:thyroid tumor	0	0	2	0
	metastasis:subcutis tumor	0	0	0	1
	metastasis:bone tumor	0	0	1	0
	metastasis:Zymbal gland tumor	0	0	0	1
{Hematopoiet	ic system)				
bone marrow	leukemic cell infiltration	<50> 2	<50> 4	<50> 5	<50> 2
lymph node	leukemic cell infiltration	<50> 2	<50> 1	<50> 4	<50> 0
	metastasis:thyroid tumor	0	0	3	0
(Circulatory	system)				
heart	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
< a >	a : Number of animals examined at the	site			

< a >

b : Number of animals with lesion

STUDY NO. : 0739

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

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

SEX

: MALE

		Group Name Control	444 ppm	1333 ppm	4000 ррт
Organ	Findings	No. of Animals on Study 50	50	50	50
{Digestive sys	stem)				
salivary gl	metastasis:subcutis tumor	<50> 0	<50> 0	<50> 0	<50> 1
small intes	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
large intes	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
liver	leukemic cell infiltration	<50> 2	<50> 4	<50> 5	<50> 2
pancreas	leukemic cell infiltration	<50> 0	<50> 1	<50> 1	<50> 0
(Urinary syste	em)				
kidney	leukemic cell infiltration	<50> 0	<50> 2	<50>	<50> 0
urin bladd	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
{Endocrine sys	etem)				
pituitary	metastasis:subcutis tumor	<50> 0	<50> 0	<50> 1	<50> 0
thyroid	metastasis:subcutis tumor	<50> 0	<50> 0	<50> 0	<50> 1
adrenal	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 1
< a > b	a : Number of animals examined at the si b : Number of animals with lesion	te			

STUDY NO. : 0739

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

ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

SEX : MALE

		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
Organ	Findings				
{Endocrine sy	vstem)				
adrenal	metastasis:bone tumor	<50> 0	<50> 0	<50> 1	<50> 0
{Reproductive	e system)				
testis	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
semin ves	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
	metastasis:subcutis tumor	0	0	0	1
prostate	metastasis:subcutis tumor	<50> 0	<50> 0	<50> 0	<50> 1
{Nervous syst	em)				
brain	leukemic cell infiltration	<50> 0	<50> 3	<50> 1	<50> 0
	metastasis:pituitary tumor	1	1	0	0
spinal cord	leukemic cell infiltration	<50> 0	<50> 3	<50> 1	<50> 0
{Musculoskele	etal system)				
bone	metastasis:subcutis tumor	<50> 0	<50> 0	<50> 1	<50> 0
(Body cavitie	esl				
pleura	metastasis:subcutis tumor	<50> 0	<50> 0	<50> 0	<50> 1
<a> > b	a : Number of animals examined at b : Number of animals with lesion				

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

SEX : MALE

		444 ppm 50	1333 ppm 50	4000 ppm 50
metastasis:bone tumor	<50> 0	<50> 0	<50> 1	<50> 0
metastasis:bone tumor	<50> 0	<50> 0	<50> 1	<50> 0
a : Number of animals examined at the si b : Number of animals with lesion	i.e			
	metastasis:bone tumor metastasis:bone tumor a: Number of animals examined at the si	No. of Animals on Study 50 Findings	No. of Animals on Study 50 50 Findings	No. of Animals on Study 50 50 50

TABLE P 2

HISTOPATHOLOGICAL FINDINGS:

METASTASIS OF TUMOR: FEMALE

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

)rgan	Findings	Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
(Respirator	y system)				
ung	leukemic cell infiltration	<50> 3	<50> 3	<50> 6	<50> 1
	metastasis:uterus tumor	0	0	0	1
	metastasis:adrenal tumor	1	0	0	0
	metastasis:thyroid tumor	0	0	1	1
Hematopoie	tic system)				
one marrow	leukemic cell infiltration	<50> 5	<50> 3	<50> 3	<50> 0
mph node	leukemic cell infiltration	<50> 1	<50> 2	<50> 1	<50> 0
	metastasis:thyroid tumor	0 .	0	1	1
leen	metastasis:uterus tumor	<50> 0	<50> 0	<50> 0	<50> 1
)igestive :	systemi				
ongue	leukemic cell infiltration	<50> 0	<50> 0	<50> 0	<50> 1
mall intes	leukemic cell infiltration	<50> 0	<50> 1	<50> 0	<50> 0
ver	leukemic cell infiltration	<50> 5	<50> 2	<50> 7	<50> 2
	metastasis:uterus tumor	0	0	0	2

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 · FFMALF

(JPT150)

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)

ALL ANIMALS (0-105W)

		Group Name Control	444 ppm	1333 ppm	4000 ppm
Organ	Findings	No. of Animals on Study 50	50	50	50
{Digestive	system)				
oancreas	metastasis:uterus tumor	<50> 0	<50> 0	<50> 0	<50> 1
{Urinary sy	stem				
idney	leukemic cell infiltration	<50> 2	<50> 1	<50> 2	<50> 0
Endocrine	system)				
ituitary	leukemic cell infiltration	<50> 1	<50> 0	<50> 1	<50> 0
Reproducti	ve system)				
vary	leukemic cell infiltration	<50> 1	<50> 0	<50> 0	<50> 0
	metastasis:uterus tumor	0	0	0	1
	metastasis:adrenal tumor	0	0	0	1
terus	leukemic cell infiltration	<50> 1	<50> 0	<50> 1	<50> 0
agina	leukemic cell infiltration	<50> 0	<50> 0	<50> 1	<50> 0
Nervous sy	stem)				
rain	leukemic cell infiltration	<50> 0	<50> 2	<50> 2	<50> 0
(a >	a : Number of animals examined at b : Number of animals with lesion				, , , , , , , , , , , , , , , , , , ,

BA1S5

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1

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

: FEMALE SEX

Organ		Group Name Control No. of Animals on Study 50	444 ppm 50	1333 ppm 50	4000 ppm 50
Nervous syst	on!				
	Citi				
brain	metastasis:pituitary tumor	<50> 1	<50> 1	<50> 0	<50> 2
spinal cord	leukemic cell infiltration	<50> 1	<50> 2	<50> 2	<50> 0
(Body cavitie	ls				
peritoneum	metastasis:uterus tumor	<50> 0	<50> 1	<50> 0	<50> 1
(a > b	a : Number of animals examined at the si b : Number of animals with lesion	te	•		
(JPT150)					

TABLE Q 1

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

TABLE Q 1 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS IN JAPAN BIOASSAY RESEARCH CENTER: F344/DuCrlCrlj MALE RATS

Organs	No. of animals	No. of animals	Incidence	Min Max.
Tumors	examined	bearing tumor	(%)	(%)
Tongue	2948			
Tongue Squamous cell papilloma ¹⁾	2940	10	0.3	0 - 4
Squamous carcinoma ²⁾		2	0.1	0 - 2
1) + 2)		12	0.4	0 - 6
Esophagous	2948			
Squamous cell papilloma		0	0.0	0
Stomach	2948			
Squamous cell papilloma ¹⁾		5	0.2	0 - 2
Squamous carcinoma ²⁾		6	0.2	0 - 2
1) + 2)		11	0.4	0 - 2
Zymbal gland	2948			
Zymbal gland tumor: benign ¹⁾		11	0.4	0 - 4
Zymbal gland tumor: malignant ²⁾		16	0.5	0 - 4
1) + 2)		27	0.9	0 - 4

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

Study No.:

 $\begin{array}{c} 0043,\,0059,\,0061,\,0063,\,0065,\,0067,\,0095,\,0104,\,0115,\,0130,\,0141,\,0158,\,0162,\,0189,\\ 0205,\,0210,\,0224,\,0242,\,0246,\,0267,\,0269,\,0278,\,0284,\,0288,\,0294,\,0296,\,0318,\,0328,\\ 0342,\,0347,\,0365,\,0371,\,0396,\,0399,\,0401,\,0407,\,0417,\,0421,\,0437,\,0448,\,0457,\,0461,\\ 0497,\,0535,\,0560,\,0579,\,0581,\,0610,\,0612,\,0641,\,0667,\,0675,\,0684,\,0686,\,0691,\,0704,\\ 0711,\,0731,\,0753 \end{array}$

TABLE Q 2

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

TABLE Q 2 HISTORICAL CONTROL DATA OF SELECTED NEOPLASTIC LESIONS IN JAPAN BIOASSAY RESEARCH CENTER: F344/DuCrlCrlj FEMALE RATS

Organs Tumors	No. of animals examined	No. of animals bearing tumor	Incidence (%)	Min Max. (%)
Stomach	2747			
Squamous cell papilloma		10	0.4	0 - 4
Squamous carcinoma		0	0.0	0

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

Study No.:

 $0043,\,0059,\,0061,\,0063,\,0065,\,0067,\,0095,\,0104,\,0115,\,0130,\,0141,\,0158,\,0162,\,0189,\\0205,\,0210,\,0224,\,0242,\,0246,\,0267,\,0269,\,0278,\,0284,\,0296,\,\,0303,\,0318,\,0328,\,0342,\\0347,\,0365,\,0371,\,0399,\,0401,\,0417,\,0421,\,0437,\,0448,\,0457,\,0461,\,0497,\,0535,\,0560,\\0579,\,0610,\,0612,\,0641,\,0667,\,0675,\,0684,\,0686,\,0691,\,0704,\,0711,\,0731,\,0753$

TABLE R 1

CAUSE OF DEATH: MALE

STUDY NO. : 0739
ANIMAL : RAT F344/DuCr|Cr|j[F344/DuCrj]
SEX : MALE

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

PAGE: 1

Group Name	Control	444 ppm	1333 ppm	4000 ppm
Number of Dead and Moribund Animal	11	14	14	9
digestive sy les	0	0	1	0
pneumonia	0	0	0	1
peritonitis	U	U	1	0
tumor d:leukemia	2	3	2	!
tumor d:subcutis	2	!	2	1
tumor d:spleen	U	1	U	U
tumor d:tongue	U	U	1	U
tumor d:small intes	0	0	1	0
tumor dipituitary	5	6	4	2
tumor d:thyroid	0	1	1	0
tumor d:adrenal	1	0	0	0
tumor d:brain	0	1	0	1
tumor d:spinal cord	0	1	0	0
tumor d:Zymbal gl	0	0	0	2
tumor d:bone	1	0	1	1

(B10120)

BAIS5

TABLE R 2

CAUSE OF DEATH: FEMALE

STUDY NO. : 0739
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
SEX : FEMALE

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

PAGE: 2

Group Name	Control	444 ppm	1333 ppm	4000 ppm
Number of Dead and Moribund Animal	10	10	7	7
cardiovascular les	1	0	0	0
tumor d:leukemia	3	4	5	0
tumor d:kidney	1	0	0	0
tumor d:pituitary	2	1	0	2
tumor d:adrenal	1	1	0	1
tumor d:uterus	1	3	1	3
tumor d:mammary gl	0	0	0	1
tumor d:prep/cli gl	1	0	1	0
tumor d:peritoneum	0	1	0	0

(B10120)

BAIS5