

ブチルアルデヒドの rasH2 マウスを用いた
吸入による中期発がん性試験報告書

試験番号 : 0919

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TABLE A

CONCENTRATIONS OF BUTYRALDEHYDE
IN THE INHALATION CHAMBER OF *rasH2* MICE
IN THE 26-WEEK CARCINOGENICITY STUDY

TABLE A CONCENTRATIONS OF BUTYRALDEHYDE IN THE INHALATION CHAMBER OF rasH2 MICE IN THE 26-WEEK CARCINOGENICITY

Group Name	Concentration(ppm) Mean \pm S.D.
Control	0.0 \pm 0.0
300 ppm	299.8 \pm 1.1
1000 ppm	1000.5 \pm 3.9
3000 ppm	3000.9 \pm 10.7

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0919

SURVIVAL ANIMAL NUMBERS

ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)

REPORT TYPE : A1 26

SEX : MALE

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0
300 ppm	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0
1000 ppm	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0
3000 ppm	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0919

SURVIVAL ANIMAL NUMBERS

ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)

REPORT TYPE : A1 26

SEX : MALE

Group Name	Animals At start	Administration (Weeks)												
		14	15	16	17	18	19	20	21	22	23	24	25	26
Control	25	25/25 100.0	25/25 100.0	24/25 96.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0
300 ppm	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0
1000 ppm	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0
3000 ppm	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0
		Number of survival/ Number of effective animals Survival rate(%)												

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0919

SURVIVAL ANIMAL NUMBERS

ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)

REPORT TYPE : A1 26

SEX : FEMALE

Group Name	Animals At start	Administration (Weeks)													
		0	1	2	3	4	5	6	7	8	9	10	11	12	13
Control	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0
300 ppm	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0
1000 ppm	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	24/25 96.0	24/25 96.0	24/25 96.0
3000 ppm	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0
		Number of survival/ Number of effective animals Survival rate(%)													

STUDY NO. : 0919

SURVIVAL ANIMAL NUMBERS

ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)

REPORT TYPE : A1 26

SEX : FEMALE

Group Name	Animals At start	Administration (Weeks)													
		14	15	16	17	18	19	20	21	22	23	24	25	26	
Control	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	24/25 96.0	24/25 96.0	24/25 96.0
300 ppm	25	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0	23/25 92.0
1000 ppm	25	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0	24/25 96.0
3000 ppm	25	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0	25/25 100.0

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

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1 26

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 1

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 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
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	300 ppm	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	1000 ppm	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	3000 ppm	25	25	25	25	25	25	25	25	25	25	25	25	25	25

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1 26

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 2

Clinical sign	Group Name	Administration Week-day											
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7
DEATH	Control	0	1	2	2	2	2	2	2	2	2	2	2
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	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
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	1	1
M. ABDOMEN	Control	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	1	1
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	1
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	25	24	23	23	23	23	23	23	23	23	23	22
	300 ppm	25	25	25	25	25	25	25	25	25	25	25	25
	1000 ppm	25	25	25	25	25	25	25	25	25	25	25	25
	3000 ppm	25	25	25	25	25	25	25	25	25	25	24	24

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1 26

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 3

Clinical sign	Group Name	Administration Week-day													
		1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7	9-7	10-7	11-7	12-7	13-7	14-7
DEATH	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	0	0	0	1	1	1	1	1	1
	1000 ppm	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	300 ppm	25	25	25	25	25	25	25	25	24	24	24	24	24	24
	1000 ppm	25	25	25	25	25	25	25	25	25	24	24	24	24	24
	3000 ppm	25	25	25	25	25	25	25	25	25	25	25	25	25	25

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1 26

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 4

Clinical sign	Group Name	Administration Week-day											
		15-7	16-7	17-7	18-7	19-7	20-7	21-7	22-7	23-7	24-7	25-7	26-7
DEATH	Control	0	0	0	0	0	0	0	0	0	1	1	1
	300 ppm	1	1	1	1	1	1	2	2	2	2	2	2
	1000 ppm	1	1	1	1	1	1	1	1	1	1	1	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
INTERNAL MASS	Control	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	1	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
IRREGULAR BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	1
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
DEEP BREATHING	Control	0	0	0	0	0	0	0	0	0	0	0	0
	300 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	1000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
	3000 ppm	0	0	0	0	0	0	0	0	0	0	0	0
NON REMARKABLE	Control	25	25	25	25	25	25	25	25	25	24	24	24
	300 ppm	24	24	24	24	24	23	23	23	23	23	23	23
	1000 ppm	24	24	24	24	24	24	24	24	24	24	24	23
	3000 ppm	25	25	25	25	25	25	25	25	25	25	25	25

TABLE D1

BODY WEIGHT CHANGES AND
SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week on Study	Control		300 ppm		1000 ppm		3000 ppm				
	Av. Wt.	No. of Surviv. <25>	Av. Wt.	% of cont. <25>	No. of Surviv.	Av. Wt.	% of cont. <25>	No. of Surviv.	Av. Wt.	% of cont. <25>	No. of Surviv.
0	25.0 (25)	25/25	25.0 (25)	100	25/25	25.0 (25)	100	25/25	25.0 (25)	100	25/25
1	25.3 (25)	25/25	25.4 (25)	100	25/25	25.5 (25)	101	25/25	24.8 (25)	98	25/25
2	26.1 (25)	25/25	25.9 (25)	99	25/25	26.4 (25)	101	25/25	25.1 (25)	96	25/25
3	26.9 (25)	25/25	26.3 (25)	98	25/25	26.6 (25)	99	25/25	25.5 (25)	95	25/25
4	27.6 (25)	25/25	26.7 (25)	97	25/25	27.1 (25)	98	25/25	25.9 (25)	94	25/25
5	28.3 (25)	25/25	27.6 (25)	98	25/25	27.7 (25)	98	25/25	26.2 (25)	93	25/25
6	28.9 (25)	25/25	28.2 (25)	98	25/25	28.3 (25)	98	25/25	26.4 (25)	91	25/25
7	29.1 (25)	25/25	28.4 (25)	98	25/25	28.7 (25)	99	25/25	26.4 (25)	91	25/25
8	29.9 (25)	25/25	28.9 (25)	97	25/25	29.4 (25)	98	25/25	26.8 (25)	90	25/25
9	30.2 (25)	25/25	29.1 (25)	96	25/25	29.6 (25)	98	25/25	26.8 (25)	89	25/25
10	30.5 (25)	25/25	29.5 (25)	97	25/25	29.9 (25)	98	25/25	26.8 (25)	88	25/25
11	30.7 (25)	25/25	29.6 (25)	96	25/25	30.2 (25)	98	25/25	27.1 (25)	88	25/25
12	31.4 (25)	25/25	30.4 (25)	97	25/25	30.7 (25)	98	25/25	27.6 (25)	88	25/25
13	31.4 (25)	25/25	30.3 (25)	96	25/25	31.5 (25)	100	25/25	27.9 (25)	89	25/25
14	31.6 (25)	25/25	30.7 (25)	97	25/25	31.7 (25)	100	25/25	28.0 (25)	89	25/25
15	31.8 (25)	25/25	30.9 (25)	97	25/25	31.5 (25)	99	25/25	27.8 (25)	87	25/25
16	31.8 (24)	24/25	30.8 (25)	97	25/25	31.5 (25)	99	25/25	27.9 (25)	88	25/25
17	32.1 (23)	23/25	30.8 (25)	96	25/25	31.6 (25)	98	25/25	27.7 (25)	86	25/25
18	32.5 (23)	23/25	30.9 (25)	95	25/25	32.1 (25)	99	25/25	27.8 (25)	86	25/25
19	32.4 (23)	23/25	30.8 (25)	95	25/25	32.0 (25)	99	25/25	27.5 (25)	85	25/25
20	32.4 (23)	23/25	31.5 (25)	97	25/25	32.1 (25)	99	25/25	27.7 (25)	85	25/25
21	32.7 (23)	23/25	31.7 (25)	97	25/25	32.4 (25)	99	25/25	27.9 (25)	85	25/25
22	32.9 (23)	23/25	31.9 (25)	97	25/25	32.6 (25)	99	25/25	28.1 (25)	85	25/25
23	33.0 (23)	23/25	31.8 (25)	96	25/25	32.9 (25)	100	25/25	27.9 (25)	85	25/25
24	33.4 (23)	23/25	32.3 (25)	97	25/25	33.5 (25)	100	25/25	28.4 (25)	85	25/25
25	33.4 (23)	23/25	32.5 (25)	97	25/25	33.5 (25)	100	25/25	28.2 (25)	84	25/25
26	33.3 (23)	23/25	32.5 (25)	98	25/25	33.8 (25)	102	25/25	28.8 (25)	86	25/25

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

TABLE D2

BODY WEIGHT CHANGES AND
SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week on Study	Control		300 ppm		1000 ppm		3000 ppm				
	Av. Wt.	No. of Surviv. <25>	Av. Wt.	% of cont. <25>	No. of Surviv.	Av. Wt.	% of cont. <25>	No. of Surviv.	Av. Wt.	% of cont. <25>	No. of Surviv.
0	20.2 (25)	25/25	20.2 (25)	100	25/25	20.2 (25)	100	25/25	20.2 (25)	100	25/25
1	21.0 (25)	25/25	20.8 (25)	99	25/25	20.6 (25)	98	25/25	20.3 (25)	97	25/25
2	21.2 (25)	25/25	20.8 (25)	98	25/25	20.9 (25)	99	25/25	20.5 (25)	97	25/25
3	21.1 (25)	25/25	20.8 (25)	99	25/25	20.3 (25)	96	25/25	20.3 (25)	96	25/25
4	21.7 (25)	25/25	20.9 (25)	96	25/25	20.7 (25)	95	25/25	20.6 (25)	95	25/25
5	21.8 (25)	25/25	21.8 (25)	100	25/25	21.4 (25)	98	25/25	20.7 (25)	95	25/25
6	22.3 (25)	25/25	22.1 (25)	99	25/25	21.4 (25)	96	25/25	21.2 (25)	95	25/25
7	22.5 (25)	25/25	22.3 (25)	99	25/25	22.0 (25)	98	25/25	20.8 (25)	92	25/25
8	23.0 (25)	25/25	22.7 (24)	99	24/25	22.9 (25)	100	25/25	21.4 (25)	93	25/25
9	23.2 (25)	25/25	22.8 (24)	98	24/25	22.3 (25)	96	25/25	21.4 (25)	92	25/25
10	23.0 (25)	25/25	23.0 (24)	100	24/25	22.6 (24)	98	24/25	21.8 (25)	95	25/25
11	23.1 (25)	25/25	23.0 (24)	100	24/25	22.3 (24)	97	24/25	21.9 (25)	95	25/25
12	23.5 (25)	25/25	23.6 (24)	100	24/25	23.0 (24)	98	24/25	21.9 (25)	93	25/25
13	23.5 (25)	25/25	23.8 (24)	101	24/25	23.2 (24)	99	24/25	22.2 (25)	94	25/25
14	23.7 (25)	25/25	23.1 (24)	97	24/25	23.3 (24)	98	24/25	22.4 (25)	95	25/25
15	23.9 (25)	25/25	23.8 (24)	100	24/25	23.7 (24)	99	24/25	22.2 (25)	93	25/25
16	24.0 (25)	25/25	23.6 (24)	98	24/25	23.5 (24)	98	24/25	22.3 (25)	93	25/25
17	24.1 (25)	25/25	23.8 (24)	99	24/25	23.7 (24)	98	24/25	22.2 (25)	92	25/25
18	24.5 (25)	25/25	24.1 (24)	98	24/25	23.8 (24)	97	24/25	22.1 (25)	90	25/25
19	24.5 (25)	25/25	23.9 (24)	98	24/25	23.4 (24)	96	24/25	22.5 (25)	92	25/25
20	24.2 (25)	25/25	23.7 (24)	98	24/25	23.3 (24)	96	24/25	22.4 (25)	93	25/25
21	24.5 (25)	25/25	23.7 (23)	97	23/25	24.2 (24)	99	24/25	22.4 (25)	91	25/25
22	24.3 (25)	25/25	24.0 (23)	99	23/25	23.8 (24)	98	24/25	22.6 (25)	93	25/25
23	24.4 (25)	25/25	24.2 (23)	99	23/25	24.0 (24)	98	24/25	22.8 (25)	93	25/25
24	24.7 (24)	24/25	24.6 (23)	100	23/25	24.3 (24)	98	24/25	23.0 (25)	93	25/25
25	25.1 (24)	24/25	24.8 (23)	99	23/25	24.4 (24)	97	24/25	22.9 (25)	91	25/25
26	25.0 (24)	24/25	24.9 (23)	100	23/25	24.4 (24)	98	24/25	23.5 (25)	94	25/25

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

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration		week-day		2-7		3-7		4-7		5-7		6-7	
	0-0		1-7											
Control	25.0±	1.2	25.3±	1.3	26.1±	1.3	26.9±	1.3	27.6±	1.4	28.3±	1.3	28.9±	1.6
300 ppm	25.0±	1.2	25.4±	1.2	25.9±	1.4	26.3±	1.4	26.7±	1.5	27.6±	1.5	28.2±	1.5
1000 ppm	25.0±	1.2	25.5±	1.1	26.4±	1.1	26.6±	1.2	27.1±	1.3	27.7±	1.4	28.3±	1.4
3000 ppm	25.0±	1.2	24.8±	1.4	25.1±	2.3	25.5±	1.3**	25.9±	1.4**	26.2±	1.3**	26.4±	1.4**

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration		week-day		9-7	10-7	11-7	12-7	13-7
	7-7	8-7	8-7	9-7					
Control	29.1± 1.7	29.9± 1.8	30.2± 1.7	30.5± 2.1	30.7± 2.1	31.4± 2.1	31.4± 2.3		
300 ppm	28.4± 1.7	28.9± 1.7	29.1± 1.7*	29.5± 1.8	29.6± 1.8	30.4± 1.8	30.3± 2.1		
1000 ppm	28.7± 1.5	29.4± 1.5	29.6± 1.5	29.9± 1.5	30.2± 1.7	30.7± 1.7	31.5± 2.0		
3000 ppm	26.4± 1.3**	26.8± 1.4**	26.8± 1.2**	26.8± 1.3**	27.1± 1.4**	27.6± 1.3**	27.9± 1.1**		

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day							
	14-7	15-7	16-7	17-7	18-7	19-7	20-7	
Control	31.6± 2.5	31.8± 2.2	31.8± 2.4	32.1± 2.6	32.5± 2.7	32.4± 2.6	32.4± 2.7	
300 ppm	30.7± 2.1	30.9± 2.1	30.8± 2.2	30.8± 2.3	30.9± 2.1	30.8± 2.1*	31.5± 2.2	
1000 ppm	31.7± 2.1	31.5± 2.3	31.5± 2.3	31.6± 2.2	32.1± 2.2	32.0± 2.7	32.1± 2.6	
3000 ppm	28.0± 1.2**	27.8± 1.1**	27.9± 1.2**	27.7± 1.3**	27.8± 1.4**	27.5± 1.1**	27.7± 1.2**	

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day					
	21-7	22-7	23-7	24-7	25-7	26-7
Control	32.7± 2.8	32.9± 2.9	33.0± 2.9	33.4± 2.9	33.4± 2.9	33.3± 3.3
300 ppm	31.7± 2.3	31.9± 2.3	31.8± 2.3	32.3± 2.1	32.5± 2.3	32.5± 2.4
1000 ppm	32.4± 2.7	32.6± 2.8	32.9± 2.5	33.5± 2.8	33.5± 2.7	33.8± 2.9
3000 ppm	27.9± 1.1**	28.1± 1.2**	27.9± 1.2**	28.4± 1.3**	28.2± 1.3**	28.8± 1.5**

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

Test of Dunnett

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration		week-day		2-7		3-7		4-7		5-7		6-7	
	0-0		1-7											
Control	20.2±	1.1	21.0±	1.4	21.2±	1.2	21.1±	1.1	21.7±	1.2	21.8±	0.9	22.3±	1.0
300 ppm	20.2±	1.1	20.8±	1.3	20.8±	1.2	20.8±	1.2	20.9±	0.9*	21.8±	1.1	22.1±	1.3
1000 ppm	20.2±	1.0	20.6±	1.2	20.9±	1.2	20.3±	1.0*	20.7±	1.0**	21.4±	1.1	21.4±	0.9**
3000 ppm	20.2±	1.1	20.3±	0.9	20.5±	1.0	20.3±	0.8*	20.6±	0.8**	20.7±	0.8**	21.2±	1.0**

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration		week-day		7-7		8-7		9-7		10-7		11-7		12-7		13-7	
Control	22.5±	1.0	23.0±	1.0	23.2±	1.2	23.0±	1.4	23.1±	1.4	23.5±	1.2	23.5±	1.1				
300 ppm	22.3±	1.0	22.7±	1.2	22.8±	1.4	23.0±	1.2	23.0±	1.1	23.6±	1.1	23.8±	1.7				
1000 ppm	22.0±	0.8	22.9±	1.2	22.3±	1.5*	22.6±	1.1	22.3±	0.8*	23.0±	1.2	23.2±	0.9				
3000 ppm	20.8±	0.9**	21.4±	0.9**	21.4±	1.0**	21.8±	1.0**	21.9±	0.9**	21.9±	1.0**	22.2±	1.2**				

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration		week-day		14-7		15-7		16-7		17-7		18-7		19-7		20-7	
Control	23.7±	1.3	23.9±	1.7	24.0±	1.4	24.1±	1.3	24.5±	1.4	24.5±	1.6	24.2±	1.8				
300 ppm	23.1±	0.9	23.8±	1.3	23.6±	1.2	23.8±	0.7	24.1±	1.5	23.9±	1.5	23.7±	1.4				
1000 ppm	23.3±	1.0	23.7±	1.2	23.5±	1.4	23.7±	0.9	23.8±	1.2	23.4±	0.9*	23.3±	0.9				
3000 ppm	22.4±	0.9**	22.2±	1.3**	22.3±	1.2**	22.2±	0.9**	22.1±	0.9**	22.5±	1.4**	22.4±	1.0**				

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day					
	21-7	22-7	23-7	24-7	25-7	26-7
Control	24.5± 1.4	24.3± 1.3	24.4± 1.3	24.7± 1.5	25.1± 1.7	25.0± 1.8
300 ppm	23.7± 1.0	24.0± 1.2	24.2± 1.7	24.6± 1.4	24.8± 1.7	24.9± 1.5
1000 ppm	24.2± 1.3	23.8± 1.5	24.0± 1.1	24.3± 1.1	24.4± 1.5	24.4± 1.8
3000 ppm	22.4± 1.0**	22.6± 0.9**	22.8± 0.6**	23.0± 1.0**	22.9± 0.9**	23.5± 0.8**

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

Test of Dunnett

TABLE E1

FOOD CONSUMPTION CHANGES AND
SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week on Study	Control		300 ppm		1000 ppm		3000 ppm				
	Av. FC.	No. of Surviv. <25>	Av. FC.	% of cont. <25>	No. of Surviv.	Av. FC.	% of cont. <25>	No. of Surviv.	Av. FC.	% of cont. <25>	No. of Surviv.
1	3.8 (25)	25/25	4.0 (25)	105	25/25	4.0 (25)	105	25/25	3.8 (25)	100	25/25
2	3.7 (25)	25/25	3.7 (25)	100	25/25	3.8 (25)	103	25/25	3.5 (25)	95	25/25
3	4.0 (25)	25/25	3.9 (25)	98	25/25	3.8 (25)	95	25/25	3.5 (25)	88	25/25
4	4.1 (25)	25/25	4.1 (25)	100	25/25	4.0 (25)	98	25/25	3.6 (25)	88	25/25
5	4.2 (25)	25/25	4.2 (25)	100	25/25	4.0 (25)	95	25/25	3.5 (25)	83	25/25
6	4.2 (25)	25/25	4.2 (25)	100	25/25	4.2 (25)	100	25/25	3.7 (25)	88	25/25
7	4.2 (25)	25/25	4.3 (25)	102	25/25	4.2 (25)	100	25/25	3.6 (25)	86	25/25
8	4.4 (25)	25/25	4.3 (25)	98	25/25	4.3 (25)	98	25/25	3.6 (25)	82	25/25
9	4.4 (25)	25/25	4.5 (25)	102	25/25	4.4 (25)	100	25/25	3.7 (25)	84	25/25
10	4.5 (25)	25/25	4.5 (25)	100	25/25	4.4 (25)	98	25/25	3.8 (25)	84	25/25
11	4.4 (25)	25/25	4.5 (25)	102	25/25	4.4 (25)	100	25/25	3.8 (25)	86	25/25
12	4.5 (25)	25/25	4.5 (25)	100	25/25	4.4 (25)	98	25/25	3.8 (25)	84	25/25
13	4.3 (25)	25/25	4.4 (25)	102	25/25	4.4 (25)	102	25/25	3.7 (25)	86	25/25
14	4.4 (25)	25/25	4.4 (25)	100	25/25	4.4 (25)	100	25/25	3.7 (25)	84	25/25
15	4.4 (25)	25/25	4.5 (25)	102	25/25	4.4 (25)	100	25/25	3.7 (25)	84	25/25
16	4.3 (24)	24/25	4.4 (25)	102	25/25	4.4 (25)	102	25/25	3.7 (25)	86	25/25
17	4.4 (23)	23/25	4.4 (25)	100	25/25	4.4 (25)	100	25/25	3.6 (25)	82	25/25
18	4.4 (23)	23/25	4.4 (25)	100	25/25	4.4 (25)	100	25/25	3.8 (25)	86	25/25
19	4.4 (23)	23/25	4.4 (25)	100	25/25	4.4 (25)	100	25/25	3.6 (25)	82	25/25
20	4.5 (23)	23/25	4.7 (25)	104	25/25	4.6 (25)	102	25/25	3.7 (25)	82	25/25
21	4.6 (23)	23/25	4.6 (25)	100	25/25	4.6 (25)	100	25/25	3.8 (25)	83	25/25
22	4.7 (23)	23/25	4.7 (25)	100	25/25	4.7 (25)	100	25/25	3.9 (25)	83	25/25
23	4.6 (23)	23/25	4.7 (25)	102	25/25	4.7 (25)	102	25/25	3.8 (25)	83	25/25
24	4.7 (23)	23/25	4.7 (25)	100	25/25	4.8 (25)	102	25/25	4.0 (25)	85	25/25
25	4.6 (23)	23/25	4.8 (25)	104	25/25	4.8 (25)	104	25/25	3.8 (25)	83	25/25
26	4.7 (23)	23/25	4.9 (25)	104	25/25	4.9 (25)	104	25/25	4.2 (25)	89	25/25

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

TABLE E2

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week on Study	Control		300 ppm		1000 ppm		3000 ppm				
	Av. FC.	No. of Surviv. <25>	Av. FC.	% of cont. <25>	No. of Surviv.	Av. FC.	% of cont. <25>	No. of Surviv.	Av. FC.	% of cont. <25>	No. of Surviv.
1	3.5 (25)	25/25	3.5 (25)	100	25/25	3.5 (25)	100	25/25	3.4 (25)	97	25/25
2	3.1 (25)	25/25	3.1 (25)	100	25/25	3.0 (25)	97	25/25	3.0 (25)	97	25/25
3	3.1 (25)	25/25	3.2 (25)	103	25/25	3.0 (25)	97	25/25	3.0 (25)	97	25/25
4	3.4 (25)	25/25	3.5 (25)	103	25/25	3.4 (25)	100	25/25	3.2 (25)	94	25/25
5	3.4 (25)	25/25	3.7 (25)	109	25/25	3.4 (25)	100	25/25	3.2 (25)	94	25/25
6	3.6 (25)	25/25	3.7 (25)	103	25/25	3.5 (25)	97	25/25	3.4 (25)	94	25/25
7	3.8 (25)	25/25	3.8 (25)	100	25/25	3.7 (25)	97	25/25	3.3 (25)	87	25/25
8	3.8 (25)	25/25	3.9 (24)	103	24/25	3.9 (25)	103	25/25	3.5 (25)	92	25/25
9	4.0 (25)	25/25	4.0 (24)	100	24/25	3.8 (25)	95	25/25	3.6 (25)	90	25/25
10	3.9 (25)	25/25	4.0 (24)	103	24/25	3.9 (24)	100	24/25	3.6 (25)	92	25/25
11	3.9 (25)	25/25	4.0 (24)	103	24/25	3.8 (24)	97	24/25	3.5 (25)	90	25/25
12	3.9 (25)	25/25	3.9 (24)	100	24/25	3.9 (24)	100	24/25	3.5 (25)	90	25/25
13	3.9 (25)	25/25	4.0 (24)	103	24/25	3.9 (24)	100	24/25	3.5 (25)	90	25/25
14	3.9 (25)	25/25	3.8 (24)	97	24/25	3.8 (24)	97	24/25	3.5 (25)	90	25/25
15	3.9 (25)	25/25	4.1 (24)	105	24/25	4.0 (24)	103	24/25	3.5 (25)	90	25/25
16	3.9 (25)	25/25	4.1 (24)	105	24/25	3.9 (24)	100	24/25	3.5 (25)	90	25/25
17	4.0 (25)	25/25	4.0 (24)	100	24/25	3.9 (24)	98	24/25	3.5 (25)	88	25/25
18	3.9 (25)	25/25	4.0 (24)	103	24/25	3.9 (24)	100	24/25	3.5 (25)	90	25/25
19	4.0 (25)	25/25	4.0 (24)	100	24/25	3.9 (24)	98	24/25	3.5 (25)	88	25/25
20	4.2 (25)	25/25	4.3 (24)	102	24/25	4.3 (24)	102	24/25	3.7 (25)	88	25/25
21	4.3 (25)	25/25	4.2 (23)	98	23/25	4.5 (24)	105	24/25	3.6 (25)	84	25/25
22	4.2 (25)	25/25	4.3 (23)	102	23/25	4.3 (24)	102	24/25	3.8 (25)	90	25/25
23	4.3 (25)	25/25	4.4 (23)	102	23/25	4.3 (24)	100	24/25	3.9 (25)	91	25/25
24	4.2 (24)	24/25	4.5 (23)	107	23/25	4.4 (24)	105	24/25	4.0 (25)	95	25/25
25	4.4 (24)	24/25	4.5 (23)	102	23/25	4.4 (24)	100	24/25	3.9 (25)	89	25/25
26	4.4 (24)	24/25	4.5 (23)	102	23/25	4.5 (24)	102	24/25	4.1 (25)	93	25/25

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

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day(effective)						
	1-7(7)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	3.8± 0.3	3.7± 0.3	4.0± 0.3	4.1± 0.3	4.2± 0.3	4.2± 0.3	4.2± 0.4
300 ppm	4.0± 0.3*	3.7± 0.3	3.9± 0.3	4.1± 0.3	4.2± 0.4	4.2± 0.3	4.3± 0.4
1000 ppm	4.0± 0.3*	3.8± 0.2	3.8± 0.2	4.0± 0.2	4.0± 0.3	4.2± 0.3	4.2± 0.4
3000 ppm	3.8± 0.3	3.5± 0.6	3.5± 0.4**	3.6± 0.2**	3.5± 0.2**	3.7± 0.3**	3.6± 0.3**

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day(effective)						
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	14-7(7)
Control	4.4± 0.3	4.4± 0.4	4.5± 0.4	4.4± 0.4	4.5± 0.4	4.3± 0.5	4.4± 0.5
300 ppm	4.3± 0.4	4.5± 0.4	4.5± 0.4	4.5± 0.4	4.5± 0.4	4.4± 0.4	4.4± 0.4
1000 ppm	4.3± 0.3	4.4± 0.4	4.4± 0.4	4.4± 0.3	4.4± 0.4	4.4± 0.4	4.4± 0.4
3000 ppm	3.6± 0.3**	3.7± 0.2**	3.8± 0.2**	3.8± 0.3**	3.8± 0.2**	3.7± 0.2**	3.7± 0.3**

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day(effective)						
	15-7(7)	16-7(7)	17-7(7)	18-7(7)	19-7(7)	20-7(7)	21-7(7)
Control	4.4± 0.4	4.3± 0.4	4.4± 0.4	4.4± 0.4	4.4± 0.4	4.5± 0.5	4.6± 0.5
300 ppm	4.5± 0.4	4.4± 0.5	4.4± 0.4	4.4± 0.4	4.4± 0.4	4.7± 0.5	4.6± 0.4
1000 ppm	4.4± 0.4	4.4± 0.4	4.4± 0.4	4.4± 0.5	4.4± 0.5	4.6± 0.5	4.6± 0.5
3000 ppm	3.7± 0.2**	3.7± 0.2**	3.6± 0.2**	3.8± 0.2**	3.6± 0.2**	3.7± 0.3**	3.8± 0.3**

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day(effective)				
	22-7(7)	23-7(7)	24-7(7)	25-7(7)	26-7(7)
Control	4.7± 0.5	4.6± 0.5	4.7± 0.4	4.6± 0.5	4.7± 0.7
300 ppm	4.7± 0.5	4.7± 0.5	4.7± 0.4	4.8± 0.4	4.9± 0.5
1000 ppm	4.7± 0.5	4.7± 0.5	4.8± 0.6	4.8± 0.5	4.9± 0.5
3000 ppm	3.9± 0.3**	3.8± 0.3**	4.0± 0.3**	3.8± 0.3**	4.2± 0.4**

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

Test of Dunnett

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day(effective)						
	1-7(7)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)	7-7(7)
Control	3.5± 0.4	3.1± 0.2	3.1± 0.3	3.4± 0.3	3.4± 0.4	3.6± 0.3	3.8± 0.3
300 ppm	3.5± 0.4	3.1± 0.2	3.2± 0.2	3.5± 0.2	3.7± 0.3*	3.7± 0.3	3.8± 0.2
1000 ppm	3.5± 0.4	3.0± 0.2	3.0± 0.2	3.4± 0.2	3.4± 0.2	3.5± 0.3	3.7± 0.3
3000 ppm	3.4± 0.2	3.0± 0.3	3.0± 0.3	3.2± 0.3	3.2± 0.3*	3.4± 0.3*	3.3± 0.4**

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day(effective)						
	8-7(7)	9-7(7)	10-7(7)	11-7(7)	12-7(7)	13-7(7)	14-7(7)
Control	3.8± 0.3	4.0± 0.3	3.9± 0.3	3.9± 0.3	3.9± 0.3	3.9± 0.3	3.9± 0.3
300 ppm	3.9± 0.3	4.0± 0.2	4.0± 0.2	4.0± 0.3	3.9± 0.3	4.0± 0.4	3.8± 0.2
1000 ppm	3.9± 0.3	3.8± 0.5	3.9± 0.3	3.8± 0.3	3.9± 0.3	3.9± 0.3	3.8± 0.3
3000 ppm	3.5± 0.3**	3.6± 0.3**	3.6± 0.3**	3.5± 0.2**	3.5± 0.3**	3.5± 0.2**	3.5± 0.2**

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day(effective)						
	15-7(7)	16-7(7)	17-7(7)	18-7(7)	19-7(7)	20-7(7)	21-7(7)
Control	3.9± 0.4	3.9± 0.4	4.0± 0.3	3.9± 0.4	4.0± 0.4	4.2± 0.4	4.3± 0.4
300 ppm	4.1± 0.2*	4.1± 0.3	4.0± 0.3	4.0± 0.3	4.0± 0.3	4.3± 0.4	4.2± 0.2
1000 ppm	4.0± 0.3	3.9± 0.5	3.9± 0.3	3.9± 0.3	3.9± 0.3	4.3± 0.5	4.5± 0.5
3000 ppm	3.5± 0.3**	3.5± 0.3**	3.5± 0.2**	3.5± 0.2**	3.5± 0.3**	3.7± 0.3**	3.6± 0.3**

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

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 UNIT : g
 REPORT TYPE : A1 26
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day(effective)				
	22-7(7)	23-7(7)	24-7(7)	25-7(7)	26-7(7)
Control	4.2± 0.5	4.3± 0.4	4.2± 0.4	4.4± 0.5	4.4± 0.5
300 ppm	4.3± 0.3	4.4± 0.5	4.5± 0.4	4.5± 0.5	4.5± 0.4
1000 ppm	4.3± 0.6	4.3± 0.4	4.4± 0.5	4.4± 0.9	4.5± 0.7
3000 ppm	3.8± 0.2**	3.9± 0.3**	4.0± 0.3*	3.9± 0.3**	4.1± 0.3

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

Test of Dunnett

TABLE F1

URINALYSIS : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE. TIME : 1
 SEX : MALE

URINALYSIS

REPORT TYPE : A1

Group Name	NO. of Animals	pH_____							CHI	Protein_____					CHI	Glucose_____					CHI	Ketone body					CHI	Occult blood				CHI			
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+		4+	-	±	+	2+		3+	4+	-	±	+		2+	3+	4+	-		±	+	2+
Control	19	0	1	1	2	0	3	12		0	1	8	9	1	0		19	0	0	0	0	0		2	3	9	5	0	0		19	0	0	0	0
300 ppm	14	0	0	1	2	0	1	10		0	2	9	3	0	0		14	0	0	0	0	0		5	4	4	1	0	0		14	0	0	0	0
1000 ppm	17	0	2	0	1	0	2	12		0	2	5	10	0	0		17	0	0	0	0	0		1	4	8	4	0	0		17	0	0	0	0
3000 ppm	17	0	3	3	0	2	4	5		0	0	7	9	1	0		17	0	0	0	0	0		0	1	6	10	0	0		17	0	0	0	0

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

Test of CHI SQUARE

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
MEASURE. TIME : 1
SEX : MALE

URINALYSIS

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	Urobilinogen				CHI
		±	+	2+	3+ 4+	
Control	19	19	0	0	0	0
300 ppm	14	14	0	0	0	0
1000 ppm	17	17	0	0	0	0
3000 ppm	17	17	0	0	0	0

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

Test of CHI SQUARE

TABLE F2

URINALYSIS : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : FEMALE REPORT TYPE : A1

URINALYSIS

Group Name	NO. of Animals	pH_____							CHI	Protein_____					CHI	Glucose_____					CHI	Ketone body					CHI	Occult blood				CHI			
		5.0	6.0	6.5	7.0	7.5	8.0	8.5		-	±	+	2+	3+		4+	-	±	+	2+		3+	4+	-	±	+		2+	3+	4+	-		±	+	2+
Control	20	0	0	2	3	8	5	2		0	7	12	1	0	0		20	0	0	0	0	0		1	11	8	0	0	0		20	0	0	0	0
300 ppm	20	0	0	0	7	5	3	5		1	13	4	2	0	0		20	0	0	0	0	0		2	13	3	2	0	0		20	0	0	0	0
1000 ppm	21	0	0	3	2	7	9	0		1	10	9	1	0	0		21	0	0	0	0	0		2	12	6	1	0	0		21	0	0	0	0
3000 ppm	23	0	2	4	3	2	6	6		0	2	11	10	0	0	**	23	0	0	0	0	0		0	4	12	7	0	0	**	23	0	0	0	0

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

Test of CHI SQUARE

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
MEASURE. TIME : 1
SEX : FEMALE

URINALYSIS

REPORT TYPE : A1

Group Name	NO. of Animals	Urobilinogen				CHI
		±	+	2+	3+ 4+	
Control	20	20	0	0	0	0
300 ppm	20	20	0	0	0	0
1000 ppm	21	21	0	0	0	0
3000 ppm	23	23	0	0	0	0

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

Test of CHI SQUARE

TABLE G1

HEMATOLOGY : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (27W)

REPORT TYPE : A1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	23	11.11±	0.49	16.5±	0.5	47.5±	1.8	42.8±	0.6	14.9±	0.4	34.8±	0.6	1382±	246
300 ppm	25	11.15±	0.37	16.5±	0.4	47.6±	1.3	42.7±	0.5	14.8±	0.3	34.7±	0.5	1438±	78
1000 ppm	25	10.95±	0.43	16.4±	0.5	47.0±	1.6	42.9±	0.6	15.0±	0.4	34.9±	0.5	1392±	119
3000 ppm	25	11.11±	0.37	16.5±	0.4	47.6±	1.4	42.8±	0.5	14.8±	0.3	34.6±	0.5	1318±	78**

Significant difference ; * : P ≤ 0.05

** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
MEASURE. TIME : 1
SEX : MALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (27W)

REPORT TYPE : A1

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %	
Control	23	3.2±	0.2
300 ppm	25	3.2±	0.2
1000 ppm	25	3.1±	0.3
3000 ppm	25	3.2±	0.3

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

Test of Dunnett

(HCL070)

BAIS6

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (27W)

REPORT TYPE : A1

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO	EOSINO	BASO			
		10 ³ /μl		NEUTRO		LYMPHO							
Control	23	2.70±	4.09	29.6±	8.7	65.4±	7.6	3.1±	3.5	1.8±	1.5	0.1±	0.4
300 ppm	25	1.88±	1.32	31.1±	8.5	64.8±	7.8	2.5±	0.9	1.6±	1.6	0.0±	0.1
1000 ppm	25	1.99±	1.16	29.9±	8.9	65.5±	8.3	2.6±	0.9	2.0±	1.8	0.0±	0.0
3000 ppm	25	1.84±	1.00	35.3±	9.6	61.1±	8.8	2.1±	0.7	1.6±	1.4	0.0±	0.1

Significant difference ; * : P ≤ 0.05

** : P ≤ 0.01

Test of Dunnett

TABLE G2

HEMATOLOGY : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (27W)

REPORT TYPE : A1

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μl		HEMOGLOBIN g/dl		HEMATOCRIT %		MCV fl		MCH pg		MCHC g/dl		PLATELET 10 ³ /μl	
Control	23	10.86±	0.50	16.5±	0.6	46.6±	1.9	42.9±	0.6	15.2±	0.3	35.5±	0.6	1323±	116
300 ppm	23	11.00±	0.37	16.7±	0.4	47.2±	1.3	42.9±	0.5	15.2±	0.3	35.4±	0.5	1271±	95
1000 ppm	23	11.02±	0.51	16.7±	0.6	47.4±	2.0	43.0±	0.5	15.2±	0.3	35.3±	0.5	1271±	177
3000 ppm	25	10.77±	0.34	16.2±	0.5	46.1±	1.4	42.8±	0.6	15.0±	0.3	35.1±	0.6	1184±	78**

Significant difference ; * : P ≤ 0.05

** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
MEASURE TIME : 1
SEX : FEMALE

HEMATOLOGY (SUMMARY)
ALL ANIMALS (27W)

REPORT TYPE : A1

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %	
Control	23	3.2±	0.7
300 ppm	23	3.2±	0.8
1000 ppm	23	3.0±	0.6
3000 ppm	25	3.0±	0.8

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

Test of Dunnett

(HCL070)

BAIS 6

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (27W)

Group Name	NO. of Animals	WBC		Differential		WBC (%)		MONO	EOSINO	BASO			
		10 ³ /μl		NEUTRO		LYMPHO							
Control	23	2.40±	1.95	28.7±	9.0	67.1±	8.2	2.9±	1.2	1.3±	1.2	0.0±	0.0
300 ppm	23	2.33±	1.63	29.1±	10.6	66.6±	10.0	2.9±	1.0	1.4±	1.1	0.0±	0.0
1000 ppm	23	2.26±	1.69	32.8±	6.5	63.6±	6.5	2.4±	1.2	1.3±	1.0	0.0±	0.1
3000 ppm	25	2.47±	1.96	37.0±	12.9*	59.1±	12.1*	2.5±	1.0	1.3±	1.3	0.0±	0.1

Significant difference ; * : P ≤ 0.05

** : P ≤ 0.01

Test of Dunnett

TABLE H1

BIOCHEMISTRY : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (27W)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	23	5.1±	0.2	2.9±	0.1	1.4±	0.1	0.11±	0.02	194±	33	77±	8	56±	19
300 ppm	25	5.2±	0.1*	3.0±	0.1	1.4±	0.1	0.10±	0.01	217±	32*	79±	8	52±	15
1000 ppm	25	5.1±	0.2	2.9±	0.1	1.4±	0.1	0.10±	0.02	213±	28	78±	10	59±	19
3000 ppm	25	5.1±	0.1	3.0±	0.1**	1.5±	0.1**	0.11±	0.02	194±	29	69±	8**	42±	12*

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (27W)

REPORT TYPE : A1

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	23	159±	22	86±	141	31±	46	589±	1783	208±	34	0.2±	0.3	104±	171
300 ppm	25	165±	19	65±	20	26±	12	233±	45	211±	17	0.1±	0.2	64±	16
1000 ppm	25	164±	19	70±	24	24±	7	243±	49	208±	25	0.2±	0.2	85±	64
3000 ppm	25	148±	18	70±	21	24±	7	215±	42	238±	17**	0.1±	0.1	99±	147

Significant difference ; * : P ≤ 0.05

** : P ≤ 0.01

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (27W)

REPORT TYPE : A1

Group Name	NO. of Animals	UREANITROGEN		SODIUM		POTASSIUM		CHLORIDE		CALCIUM		INORGANIC PHOSPHRUS	
		mg/dl		mEq/l		mEq/l		mEq/l		mg/dl		mg/dl	
Control	23	25.6±	7.3	150±	1	3.8±	0.6	117±	1	8.4±	0.2	5.8±	1.2
300 ppm	25	22.6±	4.5	150±	1	3.6±	0.3	117±	2	8.4±	0.2	5.8±	0.9
1000 ppm	25	21.5±	4.0	150±	1	3.6±	0.2	117±	2	8.5±	0.2	5.8±	0.9
3000 ppm	25	23.4±	4.9	151±	2*	3.7±	0.4	118±	2*	8.4±	0.2	5.7±	1.0

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

Test of Dunnett

TABLE H2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : FEMALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (27W)

REPORT TYPE : A1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		TRIGLYCERIDE mg/dl	
Control	24	5.1±	0.2	3.1±	0.1	1.5±	0.1	0.10±	0.02	176±	27	62±	9	39±	14
300 ppm	23	5.2±	0.2	3.1±	0.1	1.5±	0.1	0.10±	0.01	180±	31	60±	6	34±	10
1000 ppm	24	5.2±	0.2	3.1±	0.2	1.5±	0.2	0.10±	0.01	186±	48	61±	10	35±	17
3000 ppm	25	5.1±	0.2	3.2±	0.1	1.6±	0.1	0.10±	0.01	204±	29**	54±	6**	29±	10

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (27W)

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl		AST U/L		ALT U/L		LDH U/L		ALP U/L		G-GTP U/L		CK U/L	
Control	24	129±	19	72±	20	22±	5	194±	35	334±	41	0.2±	0.3	72±	22
300 ppm	23	125±	10	77±	25	24±	7	215±	49	337±	38	0.2±	0.2	88±	72
1000 ppm	24	124±	24	81±	30	25±	9	218±	88	340±	52	0.2±	0.5	98±	102
3000 ppm	25	114±	12**	86±	26	27±	10	192±	37	334±	45	0.1±	0.1	72±	34

Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Dunnett

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 MEASURE TIME : 1
 SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (27W)

Group Name	NO. of Animals	UREANITROGEN		SODIUM		POTASSIUM		CHLORIDE		CALCIUM		INORGANIC PHOSPHRUS	
		mg/dl		mEq/l		mEq/l		mEq/l		mg/dl		mg/dl	
Control	24	18.3±	3.0	150±	2	3.3±	0.2	118±	2	8.7±	0.3	5.9±	0.8
300 ppm	23	18.2±	3.5	151±	1	3.1±	0.2	118±	2	8.7±	0.2	5.8±	1.0
1000 ppm	24	20.3±	7.3	151±	1	3.2±	0.5	118±	1	8.7±	0.2	5.7±	0.9
3000 ppm	25	19.4±	3.1	151±	1*	3.2±	0.4	119±	1*	8.6±	0.2	5.9±	1.0

Significant difference ; * : P ≤ 0.05

** : P ≤ 0.01

Test of Dunnett

TABLE I1

GROSS FINDINGS : MALE

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
ALL ANIMALS (0- 27W)

Organ	Findings	Group Name NO. of Animals	Control			
			25 (%)	300 ppm (%)	1000 ppm (%)	3000 ppm (%)
skin/app	nodule		0 (0)	0 (0)	0 (0)	1 (4)
subcutis	mass		0 (0)	0 (0)	0 (0)	1 (4)
lung	white zone		1 (4)	0 (0)	0 (0)	1 (4)
	red zone		0 (0)	1 (4)	0 (0)	0 (0)
	nodule		0 (0)	2 (8)	2 (8)	1 (4)
thymus	enlarged		1 (4)	0 (0)	0 (0)	0 (0)
spleen	enlarged		1 (4)	0 (0)	0 (0)	0 (0)
	black zone		4 (16)	7 (28)	7 (28)	5 (20)
	nodule		0 (0)	1 (4)	2 (8)	1 (4)
stomach	forestomach:nodule		0 (0)	0 (0)	2 (8)	0 (0)
liver	white zone		1 (4)	1 (4)	1 (4)	0 (0)
	red zone		0 (0)	0 (0)	1 (4)	2 (8)
	nodule		1 (4)	0 (0)	1 (4)	0 (0)
kidney	white zone		1 (4)	0 (0)	0 (0)	1 (4)
	cyst		0 (0)	1 (4)	0 (0)	0 (0)
testis	small		0 (0)	1 (4)	0 (0)	0 (0)
thoracic ca	pleural fluid		2 (8)	0 (0)	0 (0)	0 (0)

TABLE I2

GROSS FINDINGS : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

GROSS FINDINGS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Group Name NO. of Animals	Control			
			25 (%)	300 ppm (%)	1000 ppm (%)	3000 ppm (%)
lung	red		0 (0)	1 (4)	0 (0)	0 (0)
	nodule		1 (4)	0 (0)	2 (8)	0 (0)
thymus	enlarged		1 (4)	0 (0)	0 (0)	0 (0)
spleen	black zone		0 (0)	6 (24)	5 (20)	4 (16)
	nodule		1 (4)	2 (8)	0 (0)	0 (0)
stomach	forestomach:nodule		0 (0)	0 (0)	2 (8)	0 (0)
liver	red zone		1 (4)	0 (0)	0 (0)	0 (0)
kidney	hydronephrosis		0 (0)	0 (0)	0 (0)	1 (4)
ovary	black zone		0 (0)	1 (4)	0 (0)	0 (0)
peritoneum	red zone		0 (0)	1 (4)	0 (0)	0 (0)
abdominal c	hemorrhage		1 (4)	1 (4)	0 (0)	0 (0)
	ascites		0 (0)	1 (4)	0 (0)	0 (0)
thoracic ca	pleural fluid		0 (0)	1 (4)	2 (8)	0 (0)

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (27W)

Group Name	NO. of Animals	Body Weight	ADRENALS		TESTES		HEART		LUNGS		KIDNEYS	
Control	23	29.3 ± 3.1	0.013 ±	0.002	0.263 ±	0.026	0.196 ±	0.018	0.176 ±	0.020	0.606 ±	0.069
300 ppm	25	28.6 ± 2.2	0.013 ±	0.002	0.244 ±	0.036	0.194 ±	0.020	0.173 ±	0.018	0.593 ±	0.046
1000 ppm	25	30.1 ± 2.6	0.012 ±	0.002	0.269 ±	0.027	0.199 ±	0.020	0.176 ±	0.013	0.612 ±	0.055
3000 ppm	25	25.2 ± 1.1**	0.013 ±	0.002	0.260 ±	0.038	0.170 ±	0.015**	0.172 ±	0.012	0.544 ±	0.033**

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

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (27W)

PAGE : 2

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	23	0.084±	0.068	1.313±	0.106	0.479±	0.015
300 ppm	25	0.068±	0.011	1.282±	0.083	0.478±	0.012
1000 ppm	25	0.077±	0.023	1.321±	0.127	0.479±	0.014
3000 ppm	25	0.060±	0.011**	1.117±	0.054**	0.461±	0.012**

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

(HCL040)

BAIS 6

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (27W)

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	24	21.6± 1.4	0.071± 0.010	0.169± 0.029	0.674± 0.045	0.770± 0.059	1.925± 0.136
300 ppm	23	21.4± 1.3	0.067± 0.011	0.159± 0.020	0.686± 0.045	0.762± 0.034	1.959± 0.076
1000 ppm	24	21.1± 1.3	0.069± 0.010	0.161± 0.029	0.682± 0.032	0.962± 0.721	1.959± 0.120
3000 ppm	25	20.1± 0.9**	0.064± 0.008	0.143± 0.021**	0.671± 0.037	0.818± 0.051**	2.025± 0.115**

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

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (27W)

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	24	0.379 ± 0.056	4.764 ± 0.233	2.336 ± 0.125
300 ppm	23	0.397 ± 0.112	4.823 ± 0.236	2.313 ± 0.092
1000 ppm	24	0.368 ± 0.062	4.795 ± 0.288	2.360 ± 0.146
3000 ppm	25	0.344 ± 0.064*	4.704 ± 0.172	2.322 ± 0.107

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

(HCL042)

BAIS 6

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (27W)

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	23	29.3 ± 3.1	0.044 ± 0.007	0.907 ± 0.137	0.673 ± 0.069	0.607 ± 0.106	2.068 ± 0.158
300 ppm	25	28.6 ± 2.2	0.045 ± 0.008	0.858 ± 0.151	0.679 ± 0.058	0.607 ± 0.057	2.073 ± 0.112
1000 ppm	25	30.1 ± 2.6	0.041 ± 0.007	0.900 ± 0.114	0.663 ± 0.046	0.586 ± 0.047	2.040 ± 0.155
3000 ppm	25	25.2 ± 1.1**	0.050 ± 0.009*	1.035 ± 0.174**	0.674 ± 0.056	0.684 ± 0.048**	2.158 ± 0.144

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

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (27W)

PAGE : 2

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	23	0.300 ± 0.303	4.495 ± 0.288	1.647 ± 0.164
300 ppm	25	0.240 ± 0.046	4.487 ± 0.231	1.678 ± 0.125
1000 ppm	25	0.257 ± 0.077	4.402 ± 0.315	1.604 ± 0.118
3000 ppm	25	0.238 ± 0.041	4.427 ± 0.180	1.828 ± 0.085**

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

(HCL042)

BAIS 6

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
REPORT TYPE : A1
SEX : FEMALE
UNIT : g

ORGAN WEIGHT: ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (27W)

Group Name	No. of Animals	Body Weight	ADRENALS		OVARIES		HEART		LUNGS		KIDNEYS	
Control	24	21.6 ± 1.4	0.015 ±	0.002	0.037 ±	0.008	0.145 ±	0.009	0.166 ±	0.014	0.414 ±	0.030
300 ppm	23	21.4 ± 1.3	0.014 ±	0.002	0.034 ±	0.005	0.147 ±	0.009	0.163 ±	0.009	0.420 ±	0.031
1000 ppm	24	21.1 ± 1.3	0.015 ±	0.002	0.034 ±	0.006	0.143 ±	0.008	0.197 ±	0.119	0.412 ±	0.026
3000 ppm	25	20.1 ± 0.9**	0.013 ±	0.002**	0.029 ±	0.005**	0.135 ±	0.008**	0.164 ±	0.011	0.407 ±	0.025

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (27W)

Group Name	NO. of Animals	SPLEEN		LIVER		BRAIN	
Control	24	0.082±	0.014	1.027±	0.083	0.502±	0.019
300 ppm	23	0.085±	0.025	1.033±	0.071	0.495±	0.019
1000 ppm	24	0.077±	0.012	1.011±	0.094	0.495±	0.018
3000 ppm	25	0.069±	0.014**	0.946±	0.059**	0.466±	0.014**

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

TABLE L1

HISTOPATHOLOGICAL FINDINGS :

NEOPLASTIC LESIONS : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Group Name No. of animals on Study	Control 25	300 ppm 25	1000 ppm 25	3000 ppm 25
[Integumentary system/appandage]						
skin/app	squamous cell papilloma		<25> 0 (0%)	<25> 0 (0%)	<25> 0 (0%)	<25> 1 (4%)
subcutis	hemangioma		<25> 0 (0%)	<25> 0 (0%)	<25> 0 (0%)	<25> 1 (4%)
[Respiratory system]						
lung	bronchiolar-alveolar adenoma		<25> 0 (0%)	<25> 2 (8%)	<25> 2 (8%)	<25> 2 (8%)
	bronchiolar-alveolar carcinoma		<25> 0 (0%)	<25> 2 (8%)	<25> 1 (4%)	<25> 2 (8%)
[Hematopoietic system]						
thymus	malignant lymphoma		<25> 2 (8%)	<25> 0 (0%)	<25> 0 (0%)	<25> 0 (0%)
spleen	fibroma		<25> 0 (0%)	<25> 0 (0%)	<25> 0 (0%)	<25> 1 (4%)
	hemangioma		<25> 0 (0%)	<25> 1 (4%)	<25> 2 (8%)	<25> 0 (0%)
[Digestive system]						
stomach	squamous cell papilloma		<25> 0 (0%)	<25> 0 (0%)	<25> 1 (4%)	<25> 0 (0%)
liver	hemangioma		<25> 0 (0%)	<25> 0 (0%)	<25> 0 (0%)	<25> 1 (4%)
	hepatocellular adenoma		<25> 1 (4%)	<25> 1 (4%)	<25> 2 (8%)	<25> 0 (0%)

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

TABLE L2

HISTOPATHOLOGICAL FINDINGS :

NEOPLASTIC LESIONS : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Group Name No. of animals on Study	Control 25	300 ppm 25	1000 ppm 25	3000 ppm 25
[Respiratory system]						
lung	bronchiolar-alveolar carcinoma		<25> 1 (4%)	<25> 0 (0%)	<25> 2 (8%)	<25> 0 (0%)
[Hematopoietic system]						
thymus	malignant lymphoma		<25> 0 (0%)	<25> 0 (0%)	<25> 1 (4%)	<25> 0 (0%)
spleen	hemangioma		<25> 2 (8%)	<25> 0 (0%)	<25> 0 (0%)	<25> 0 (0%)
	hemangiosarcoma		<25> 1 (4%)	<25> 2 (8%)	<25> 0 (0%)	<25> 0 (0%)
[Digestive system]						
stomach	squamous cell papilloma		<25> 0 (0%)	<25> 0 (0%)	<25> 1 (4%)	<25> 0 (0%)
[Body cavities]						
peritoneum	hemangioma		<25> 0 (0%)	<25> 1 (4%)	<25> 0 (0%)	<25> 0 (0%)

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

TABLE M1

NEOPLASTIC LESIONS-INCIDENCE AND
STATISTICAL ANALYSIS : MALE

STUDY No. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	300 ppm	1000 ppm	3000 ppm
SITE : skin/appendage				
TUMOR : squamous cell papilloma				
Tumor rate				
Overall rates(a)	0/25(0.0)	0/25(0.0)	0/25(0.0)	1/25(4.0)
Adjusted rates(b)	0.00	0.00	0.00	4.00
Terminal rates(c)	0/23(0.0)	0/25(0.0)	0/25(0.0)	1/25(4.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1390			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0980			
Fisher Exact test(e)		P = N. C.	P = N. C.	P = 0.5000
SITE : subcutis				
TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	0/25(0.0)	0/25(0.0)	0/25(0.0)	1/25(4.0)
Adjusted rates(b)	0.00	0.00	0.00	4.00
Terminal rates(c)	0/23(0.0)	0/25(0.0)	0/25(0.0)	1/25(4.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1390			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0980			
Fisher Exact test(e)		P = N. C.	P = N. C.	P = 0.5000
SITE : lung				
TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	0/25(0.0)	2/25(8.0)	2/25(8.0)	2/25(8.0)
Adjusted rates(b)	0.00	8.00	8.00	8.00
Terminal rates(c)	0/23(0.0)	2/25(8.0)	2/25(8.0)	2/25(8.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2338			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.4387			
Fisher Exact test(e)		P = 0.2449	P = 0.2449	P = 0.2449

STUDY No. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	300 ppm	1000 ppm	3000 ppm
SITE : lung				
TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	0/25 (0.0)	2/25 (8.0)	1/25 (4.0)	2/25 (8.0)
Adjusted rates(b)	0.00	8.00	4.00	8.00
Terminal rates(c)	0/23 (0.0)	2/25 (8.0)	1/25 (4.0)	2/25 (8.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.2074			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3825			
Fisher Exact test(e)		P = 0.2449	P = 0.5000	P = 0.2449
SITE : lung				
TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	0/25 (0.0)	4/25 (16.0)	3/25 (12.0)	4/25 (16.0)
Adjusted rates(b)	0.00	16.00	12.00	16.00
Terminal rates(c)	0/23 (0.0)	4/25 (16.0)	3/25 (12.0)	4/25 (16.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1351			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2317			
Fisher Exact test(e)		P = 0.0549	P = 0.1173	P = 0.0549
SITE : thymus				
TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	2/25 (8.0)	0/25 (0.0)	0/25 (0.0)	0/25 (0.0)
Adjusted rates(b)	4.35	0.00	0.00	0.00
Terminal rates(c)	1/23 (4.3)	0/25 (0.0)	0/25 (0.0)	0/25 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 1.0000 ?			
Prevalence method(d)	P = 1.0000 ?			
Combined analysis(d)	P = 0.9467			
Cochran-Armitage test(e)	P = 0.1890			
Fisher Exact test(e)		P = 0.2449	P = 0.2449	P = 0.2449

STUDY No. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	300 ppm	1000 ppm	3000 ppm
SITE : spleen TUMOR : fibroma				
Tumor rate				
Overall rates(a)	0/25 (0.0)	0/25 (0.0)	0/25 (0.0)	1/25 (4.0)
Adjusted rates(b)	0.00	0.00	0.00	4.00
Terminal rates(c)	0/23 (0.0)	0/25 (0.0)	0/25 (0.0)	1/25 (4.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1390			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0980			
Fisher Exact test(e)		P = N. C.	P = N. C.	P = 0.5000
SITE : spleen TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	0/25 (0.0)	1/25 (4.0)	2/25 (8.0)	0/25 (0.0)
Adjusted rates(b)	0.00	4.00	8.00	0.00
Terminal rates(c)	0/23 (0.0)	1/25 (4.0)	2/25 (8.0)	0/25 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6451			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6428			
Fisher Exact test(e)		P = 0.5000	P = 0.2449	P = N. C.
SITE : stomach TUMOR : squamous cell papilloma				
Tumor rate				
Overall rates(a)	0/25 (0.0)	0/25 (0.0)	1/25 (4.0)	0/25 (0.0)
Adjusted rates(b)	0.00	0.00	4.00	0.00
Terminal rates(c)	0/23 (0.0)	0/25 (0.0)	1/25 (4.0)	0/25 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3755			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.9486			
Fisher Exact test(e)		P = N. C.	P = 0.5000	P = N. C.

STUDY No. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	300 ppm	1000 ppm	3000 ppm
SITE : liver				
TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	0/25(0.0)	0/25(0.0)	0/25(0.0)	1/25(4.0)
Adjusted rates(b)	0.00	0.00	0.00	4.00
Terminal rates(c)	0/23(0.0)	0/25(0.0)	0/25(0.0)	1/25(4.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1390			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.0980			
Fisher Exact test(e)		P = N. C.	P = N. C.	P = 0.5000
SITE : liver				
TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	1/25(4.0)	1/25(4.0)	2/25(8.0)	0/25(0.0)
Adjusted rates(b)	4.35	4.00	8.00	0.00
Terminal rates(c)	1/23(4.3)	1/25(4.0)	2/25(8.0)	0/25(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8029			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3827			
Fisher Exact test(e)		P = 0.7551	P = 0.5000	P = 0.5000

(HPT360)

BAIS6

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

STUDY No. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 SEX : MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	300 ppm	1000 ppm	3000 ppm
SITE : ALL SITE				
TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	0/25(0.0)	1/25(4.0)	2/25(8.0)	2/25(8.0)
Adjusted rates(b)	0.00	4.00	8.00	8.00
Terminal rates(c)	0/23(0.0)	1/25(4.0)	2/25(8.0)	2/25(8.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.1455			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2510			
Fisher Exact test(e)		P = 0.5000	P = 0.2449	P = 0.2449

(HPT360A)

BAIS6

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

TABLE M2

NEOPLASTIC LESIONS-INCIDENCE AND
STATISTICAL ANALYSIS : FEMALE

STUDY No. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	300 ppm	1000 ppm	3000 ppm
SITE : lung				
TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	1/25 (4.0)	0/25 (0.0)	2/25 (8.0)	0/25 (0.0)
Adjusted rates(b)	4.17	0.00	8.33	0.00
Terminal rates(c)	1/24 (4.2)	0/23 (0.0)	2/24 (8.3)	0/25 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.7036			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5391			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.5000
SITE : thymus				
TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	0/25 (0.0)	0/25 (0.0)	1/25 (4.0)	0/25 (0.0)
Adjusted rates(b)	0.00	0.00	4.17	0.00
Terminal rates(c)	0/24 (0.0)	0/23 (0.0)	1/24 (4.2)	0/25 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3789			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.9486			
Fisher Exact test(e)		P = N. C.	P = 0.5000	P = N. C.
SITE : spleen				
TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	2/25 (8.0)	0/25 (0.0)	0/25 (0.0)	0/25 (0.0)
Adjusted rates(b)	8.00	0.00	0.00	0.00
Terminal rates(c)	1/24 (4.2)	0/23 (0.0)	0/24 (0.0)	0/25 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9423			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.1890			
Fisher Exact test(e)		P = 0.2449	P = 0.2449	P = 0.2449

STUDY No. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	300 ppm	1000 ppm	3000 ppm
SITE : spleen				
TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	1/25 (4.0)	2/25 (8.0)	0/25 (0.0)	0/25 (0.0)
Adjusted rates(b)	0.00	4.35	0.00	0.00
Terminal rates(c)	0/24 (0.0)	1/23 (4.3)	0/24 (0.0)	0/25 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8756			
Prevalence method(d)	P = 0.5414			
Combined analysis(d)	P = 0.9206			
Cochran-Armitage test(e)	P = 0.1881			
Fisher Exact test(e)		P = 0.5000	P = 0.5000	P = 0.5000
SITE : spleen				
TUMOR : hemangioma, hemangiosarcoma				
Tumor rate				
Overall rates(a)	2/25 (8.0)	2/25 (8.0)	0/25 (0.0)	0/25 (0.0)
Adjusted rates(b)	4.17	4.35	0.00	0.00
Terminal rates(c)	1/24 (4.2)	1/23 (4.3)	0/24 (0.0)	0/25 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8756			
Prevalence method(d)	P = 0.8811			
Combined analysis(d)	P = 0.9669			
Cochran-Armitage test(e)	P = 0.1063			
Fisher Exact test(e)		P = 0.6954	P = 0.2449	P = 0.2449
SITE : stomach				
TUMOR : squamous cell papilloma				
Tumor rate				
Overall rates(a)	0/25 (0.0)	0/25 (0.0)	1/25 (4.0)	0/25 (0.0)
Adjusted rates(b)	0.00	0.00	4.17	0.00
Terminal rates(c)	0/24 (0.0)	0/23 (0.0)	1/24 (4.2)	0/25 (0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3789			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.9486			
Fisher Exact test(e)		P = N. C.	P = 0.5000	P = N. C.

STUDY No. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	300 ppm	1000 ppm	3000 ppm
SITE : peritoneum				
TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	0/25(0.0)	1/25(4.0)	0/25(0.0)	0/25(0.0)
Adjusted rates(b)	0.00	0.00	0.00	0.00
Terminal rates(c)	0/24(0.0)	0/23(0.0)	0/24(0.0)	0/25(0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5320			
Prevalence method(d)	P = -----			
Combined analysis(d)	P = 0.5320			
Cochran-Armitage test(e)	P = 0.5053			
Fisher Exact test(e)		P = 0.5000	P = N. C.	P = N. C.

(HPT360)

BAIS6

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

STUDY No. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	300 ppm	1000 ppm	3000 ppm
SITE : ALL SITE				
TUMOR : hemangioma				
Tumor rate				
Overall rates (a)	2/25 (8.0)	1/25 (4.0)	0/25 (0.0)	0/25 (0.0)
Adjusted rates (b)	8.00	0.00	0.00	0.00
Terminal rates (c)	1/24 (4.2)	0/23 (0.0)	0/24 (0.0)	0/25 (0.0)
Statistical analysis				
Peto test				
Standard method (d)	P = 0.5320			
Prevalence method (d)	P = 0.9423			
Combined analysis (d)	P = 0.9525			
Cochran-Armitage test (e)	P = 0.1425			
Fisher Exact test (e)		P = 0.5000	P = 0.2449	P = 0.2449

(HPT360A)

BAIS6

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

TABLE N1

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

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
REPORT TYPE : A1
SEX : MALE

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

Time-related Weeks	Items	Group Name	Control	300 ppm	1000 ppm	3000 ppm
1 - 26	NO. OF EXAMINED ANIMALS		2	0	0	0
	NO. OF ANIMALS WITH TUMORS		1	0	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		1	0	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		0	0	0	0
	NO. OF MALIGNANT TUMORS		1	0	0	0
	NO. OF TOTAL TUMORS		1	0	0	0
27 - 27	NO. OF EXAMINED ANIMALS		23	25	25	25
	NO. OF ANIMALS WITH TUMORS		2	6	8	7
	NO. OF ANIMALS WITH SINGLE TUMORS		2	6	8	6
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	1
	NO. OF BENIGN TUMORS		1	4	7	6
	NO. OF MALIGNANT TUMORS		1	2	1	2
	NO. OF TOTAL TUMORS		2	6	8	8
1 - 27	NO. OF EXAMINED ANIMALS		25	25	25	25
	NO. OF ANIMALS WITH TUMORS		3	6	8	7
	NO. OF ANIMALS WITH SINGLE TUMORS		3	6	8	6
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	1
	NO. OF BENIGN TUMORS		1	4	7	6
	NO. OF MALIGNANT TUMORS		2	2	1	2
	NO. OF TOTAL TUMORS		3	6	8	8

TABLE N2

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

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
REPORT TYPE : A1
SEX : FEMALE

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

Time-related Weeks	Items	Group Name	Control	300 ppm	1000 ppm	3000 ppm
1 - 26	NO. OF EXAMINED ANIMALS		1	2	1	0
	NO. OF ANIMALS WITH TUMORS		1	2	0	0
	NO. OF ANIMALS WITH SINGLE TUMORS		0	2	0	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	0	0
	NO. OF BENIGN TUMORS		1	1	0	0
	NO. OF MALIGNANT TUMORS		1	1	0	0
	NO. OF TOTAL TUMORS		2	2	0	0
27 - 27	NO. OF EXAMINED ANIMALS		24	23	24	25
	NO. OF ANIMALS WITH TUMORS		2	1	4	0
	NO. OF ANIMALS WITH SINGLE TUMORS		2	1	4	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		0	0	0	0
	NO. OF BENIGN TUMORS		1	0	1	0
	NO. OF MALIGNANT TUMORS		1	1	3	0
	NO. OF TOTAL TUMORS		2	1	4	0
1 - 27	NO. OF EXAMINED ANIMALS		25	25	25	25
	NO. OF ANIMALS WITH TUMORS		3	3	4	0
	NO. OF ANIMALS WITH SINGLE TUMORS		2	3	4	0
	NO. OF ANIMALS WITH MULTIPLE TUMORS		1	0	0	0
	NO. OF BENIGN TUMORS		2	1	1	0
	NO. OF MALIGNANT TUMORS		2	2	3	0
	NO. OF TOTAL TUMORS		4	3	4	0

TABLE 01

HISTOPATHOLOGICAL FINDINGS :

METASTASIS OF TUMOR : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Group Name No. of Animals on Study	Control 25	300 ppm 25	1000 ppm 25	3000 ppm 25
[Respiratory system]						
lung	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0
[Hematopoietic system]						
bone marrow	leukemic cell infiltration		<25> 2	<25> 0	<25> 0	<25> 0
lymph node	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0
spleen	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0
[Circulatory system]						
heart	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0
[Digestive system]						
liver	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0
[Urinary system]						
kidney	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0
[Endocrine system]						
pituitary	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ_____	Findings_____	Group Name No. of Animals on Study	Control 25	300 ppm 25	1000 ppm 25	3000 ppm 25
[Reproductive system]						
prostate	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0
[Special sense organs/appendage]						
Harder gl	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0
[Musculoskeletal system]						
bone	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0
[Body cavities]						
pleura	leukemic cell infiltration		<25> 2	<25> 0	<25> 0	<25> 0
peritoneum	leukemic cell infiltration		<25> 1	<25> 0	<25> 0	<25> 0

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

TABLE 02

HISTOPATHOLOGICAL FINDINGS :
METASTASIS OF TUMOR : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS : METASTASIS OF TUMOR (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Group Name No. of Animals on Study	Control 25	300 ppm 25	1000 ppm 25	3000 ppm 25
[Respiratory system]						
lung	leukemic cell infiltration		<25> 0	<25> 0	<25> 1	<25> 0
[Digestive system]						
liver	metastasis:spleen tumor		<25> 1	<25> 0	<25> 0	<25> 0
[Body cavities]						
pleura	metastasis:lung tumor		<25> 0	<25> 0	<25> 1	<25> 0
peritoneum	metastasis:spleen tumor		<25> 0	<25> 1	<25> 0	<25> 0

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

TABLE P1

HISTOPATHOLOGICAL FINDINGS :
NON-NEOPLASTIC LESIONS : MALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Group Name No. of Animals on Study				Control 25				300 ppm 25				1000 ppm 25				3000 ppm 25			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)			
[Integumentary system/appandage]																					
subcutis	inflammatory infiltration		<25>				<25>				<25>				<25>						
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0			
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
[Respiratory system]																					
nasal cavit	eosinophilic change:olfactory epithelium		<25>				<25>				<25>				<25>						
		3	0	0	0	11	0	0	0	1	0	0	0	0	0	0	0	0			
		(12)	(0)	(0)	(0)	(44)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
	eosinophilic change:respiratory epithelium	2	0	0	0	6	0	0	0	0	0	0	0	12	6	0	0	0 **			
		(8)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(48)	(24)	(0)	(0)	(0)			
	inflammation:respiratory epithelium	0	0	0	0	1	0	0	0	0	0	0	0	18	7	0	0	0 **			
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(72)	(28)	(0)	(0)	(0)			
	respiratory metaplasia:olfactory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0 **			
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(88)	(0)	(0)	(0)	(0)			
	respiratory metaplasia:gland	5	0	0	0	6	0	0	0	3	0	0	0	3	0	0	0	0			
		(20)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(0)			
	squamous cell metaplasia:respiratory epithelium	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0 **			
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(84)	(0)	(0)	(0)	(0)			

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control				300 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
nasal cavit	transitional 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)	7 (28)	0 (0)	0 (0)	0 (0)
	atrophy:olfactory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	19 (76)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	13 (52)	12 (48)
	exudate:olfactory region	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	12 (48)	7 (28)	0 (0)	0 (0)
nasopharynx	eosinophilic change	6 (24)	0 (0)	0 (0)	0 (0)	10 (40)	0 (0)	0 (0)	0 (0)	4 (16)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
trachea	vacuolic change:tracheaal epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (16)	0 (0)	0 (0)	0 (0)
lung	hemorrhage	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	bronchiolar-alveolar cell hyperplasia	0 (0)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control 25				300 ppm 25				1000 ppm 25				3000 ppm 25				
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]																		
lung	vacuolic change:bronchial epithelium		<25>				<25>				<25>				<25>			
		0	0	0	0	9	2	0	0 **	6	6	0	0 **	3	10	0	0 **	
		(0)	(0)	(0)	(0)	(36)	(8)	(0)	(0)	(24)	(24)	(0)	(0)	(12)	(40)	(0)	(0)	
[Hematopoietic system]																		
thymus	hemorrhage		<25>				<25>				<25>				<25>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	necrosis:focal	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	
spleen	deposit of melanin		<25>				<25>				<25>				<25>			
		4	0	0	0	7	0	0	0	7	0	0	0	5	0	0	0	
		(16)	(0)	(0)	(0)	(28)	(0)	(0)	(0)	(28)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	
[Circulatory system]																		
heart	myocardial fibrosis		<25>				<25>				<25>				<25>			
		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control				300 ppm				1000 ppm				3000 ppm				
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
[Digestive system]																		
salivary gl	lymphocytic infiltration	<25>				<25>				<25>				<25>				
		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)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
stomach	hyperplasia:forestomach	<25>				<25>				<25>				<25>				
		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)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	erosion:glandular stomach	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(4)		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
ulcer:glandular stomach	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
liver	angiectasis	<25>				<25>				<25>				<25>				
		0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(4)	(0)	(0)	(0)
necrosis:focal	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
fatty change	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control				300 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		Grade				Grade				Grade				Grade			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Digestive system]																	
liver																	
	mineralization	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	basophilic cell focus	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
pancreas																	
	cyst	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Urinary system]																	
kidney																	
	cystic change	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
[Endocrine system]																	
pituitary																	
	hemorrhage	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control				300 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		Grade				Grade				Grade				Grade			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
pituitary																	
	Rathke pouch	<25>				<25>				<25>				<25>			
		0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	cystic degeneration:anterior lobe	1	0	0	0	3	0	0	0	2	0	0	0	2	0	0	0
		(4)	(0)	(0)	(0)	(12)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
thyroid																	
	follicular hyperplasia	<25>				<25>				<25>				<25>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
parathyroid																	
	lymphocytic infiltration	<25>				<25>				<25>				<25>			
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	ultimobranchial body remanet	2	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
		(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)
[Reproductive system]																	
testis																	
	spermatogenic granuloma	<25>				<25>				<25>				<25>			
		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control				300 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Reproductive system]																	
testis	tubular atrophy:diffuse	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
epididymis	spermatogenic granuloma	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	decreased:sperma	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Special sense organs/appendage]																	
nasolacr d	eosinophilic change:respiratory epithelium	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Musculoskeletal system]																	
muscle	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : MALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control				300 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

{Body cavities}

pleura	mesothelial hyperplasia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

TABLE P2

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control 25				300 ppm 25				1000 ppm 25				3000 ppm 25			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Respiratory system]																	
nasal cavit		<25>				<25>				<25>				<25>			
	eosinophilic change:olfactory epithelium	7 (28)	0 (0)	0 (0)	0 (0)	10 (40)	1 (4)	0 (0)	0 (0)	4 (16)	1 (4)	0 (0)	0 (0)	3 (12)	0 (0)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium	5 (20)	0 (0)	0 (0)	0 (0)	7 (28)	1 (4)	0 (0)	0 (0)	3 (12)	0 (0)	0 (0)	0 (0)	14 (56)	0 (0)	0 (0)	0 (0) *
	inflammation:respiratory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	13 (52)	12 (48)	0 (0)	0 (0) **
	respiratory metaplasia:olfactory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	21 (84)	0 (0)	0 (0)	0 (0) **
	respiratory metaplasia:gland	8 (32)	0 (0)	0 (0)	0 (0)	10 (40)	0 (0)	0 (0)	0 (0)	3 (12)	0 (0)	0 (0)	0 (0)	5 (20)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:respiratory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	20 (80)	0 (0)	0 (0)	0 (0) **
	atrophy:turbinate	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	16 (64)	0 (0)	0 (0)	0 (0) **
	transitional cell hyperplasia	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	11 (44)	0 (0)	0 (0)	0 (0) **

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control				300 ppm				1000 ppm				3000 ppm				
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
[Respiratory system]																		
nasal cavit	atrophy:olfactory epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (16)	0 (0)	0 (0)	0 (0)	0 (0)	19 (76)	6 (24)	0 (0)	**
	exudate:respiratory region	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (12)	0 (0)	0 (0)	0 (0)	
	exudate:olfactory region	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	5 (20)	20 (80)	0 (0)	0 (0)	**
nasopharynx	eosinophilic change	9 (36)	0 (0)	0 (0)	0 (0)	8 (32)	0 (0)	0 (0)	0 (0)	4 (16)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	**
trachea	vacuolic change:tracheaal epithelium	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (20)	0 (0)	0 (0)	0 (0)	
lung	bronchiolar-alveolar cell hyperplasia	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	
	accumulation of histiocyte	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control				300 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]																	
lung	vacuolic change:bronchial epithelium	0 (0)	0 (0)	0 (0)	0 (0)	3 (12)	3 (12)	0 (0)	0 (0)	8 (32)	3 (12)	0 (0)	0 (0)	5 (20)	5 (20)	0 (0)	0 (0)
[Hematopoietic system]																	
bone marrow	increased hematopoiesis	0 (0)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
thymus	hemorrhage	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	necrosis:single cell	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	lymphoid hyperplasia	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control 25				300 ppm 25				1000 ppm 25				3000 ppm 25				
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Hematopoietic system]																		
spleen	deposit of melanin		<25>				<25>				<25>				<25>			
		1 (4)	0 (0)	0 (0)	0 (0)	6 (24)	0 (0)	0 (0)	0 (0)	0 (0)	5 (20)	0 (0)	0 (0)	0 (0)	5 (20)	0 (0)	0 (0)	0 (0)
	extramedullary hematopoiesis	2 (8)	0 (0)	0 (0)	0 (0)	4 (16)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)	
[Circulatory system]																		
heart	myocardial fibrosis		<25>				<25>				<25>				<25>			
		0 (0)	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 (4)	0 (0)	0 (0)	0 (0)
[Digestive system]																		
stomach	hyperplasia:forestomach		<25>				<25>				<25>				<25>			
		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	1 (4)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)
	erosion:glandular stomach	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control 25				300 ppm 25				1000 ppm 25				3000 ppm 25			
		1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)
[Digestive system]																	
liver																	
	necrosis:focal	1 (4)	0 (0)	0 (0)	0 (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	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 (4)	0 (0)	0 (0)	
	inflammatory cell nest	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	basophilic cell focus	2 (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)	0 (0)	0 (0)	
[Urinary system]																	
kidney																	
	hemorrhage	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	cystic change	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
	hyaline cast	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control				300 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
Grade		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney	lymphocytic infiltration	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		<25>				<25>				<25>				<25>			
	endothelial cell hyperplasia	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hydronephrosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)
	glomerulosclerosis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
[Endocrine system]																	
pituitary	cystic degeneration:anterior lobe	1	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
		(4)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)
		<25>				<25>				<25>				<25>			
thyroid	C-cell hyperplasia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		<25>				<25>				<25>				<25>			

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Control				300 ppm				1000 ppm				3000 ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		Grade				Grade				Grade				Grade			
		1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+	1+	2+	3+	4+
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Endocrine system]																	
parathyroid	ultimobranchial body remanet	2 (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)	0 (0)	0 (0)	0 (0)
adrenal	hyperplasia:cortical cell	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	hyperplasia:medulla	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
[Reproductive system]																	
ovary	angiectasis	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	cyst	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
uterus	endometrial 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)	1 (4)	0 (0)	0 (0)	0 (0)

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

STUDY NO. : 0919
 ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
 REPORT TYPE : A1
 SEX : FEMALE

HISTOPATHOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 ALL ANIMALS (0- 27W)

Organ	Findings	Group Name No. of Animals on Study Grade	Control 25				300 ppm 25				1000 ppm 25				3000 ppm 25					
			1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)	1+ (%)	2+ (%)	3+ (%)	4+ (%)		
{Reproductive system}																				
uterus	cystic endometrial hyperplasia		14 (56)	0 (0)	0 (0)	0 (0)	10 (40)	0 (0)	0 (0)	0 (0)	0 (0)	13 (52)	0 (0)	0 (0)	0 (0)	0 (0)	10 (40)	0 (0)	0 (0)	0 (0)
	vascular anomaly		0 (0)	0 (0)	0 (0)	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 (4)	0 (0)	0 (0)
	deposit of brown pigment		0 (0)	0 (0)	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 (4)	0 (0)	0 (0)	0 (0)
{Special sense organs/appendage}																				
Harder gl	hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
nasolacr d	eosinophilic change:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	2 (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)	0 (0)

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

TABLE Q1

CAUSE OF DEATH : MALE

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
SEX : MALE

COUSE OF DEATH (SUMMARY)
(0- 27W)

Group Name	Control	300 ppm	1000 ppm	3000 ppm
Number of Dead and Moribund Animal	2	0	0	0
no microscop confirm	1	0	0	0
tumor d:leukemia	1	0	0	0

(BI0120)

BAIS6

TABLE Q2

CAUSE OF DEATH : FEMALE

STUDY NO. : 0919
ANIMAL : CByB6F1-Tg(HRAS)2Jic (tg/wt)
SEX : FEMALE

COUSE OF DEATH (SUMMARY)
(0- 27W)

Group Name	Control	300 ppm	1000 ppm	3000 ppm
Number of Dead and Moribund Animal	1	2	1	0
renal lesion	0	0	1	0
tumor d:spleen	1	1	0	0
tumor d:peritoneum	0	1	0	0

(B10120)

BAIS6