

Summary of Drinking Water Carcinogenicity Study  
of 2-Methyl-1-Propanol  
in B6D2F1 Mice

September 2009

Japan Bioassay Research Center

Japan Industrial Safety and Health Association

## PREFACE

The tests were contracted and supported by the Ministry of Health, Labour and Welfare of Japan. The tests were conducted by Japan Bioassay Research Center (JBRC) and the report was prepared by JBRC and peer reviewed by outside expert pathologist. Complete report was submitted to Ministry of Health, Labour and Welfare of Japan on September 30, 2009.

This English Summary was translated by JBRC from Japanese complete report.

## Summary of Drinking Water Carcinogenicity Study of 2-Methyl-1-Propanol in B6D2F1 Mice

### **Purpose, materials and methods**

2-Methyl-1-propanol (CAS No. 78-83-1) is a colorless clear liquid with a melting point of -108°C and a boiling point of 107.9°C. It is soluble in water (8.7 wt%), alcohol, and ether.

The carcinogenicity and chronic toxicity of 2-methyl-1-propanol were examined in B6D2F1/Crlj mice. Groups of test animals were administered 2-methyl-1-propanol in their drinking water for 2 years (104 weeks). Each group consisted of either 50 male or 50 female mice. The drinking water concentrations of 2-methyl-1-propanol were 0, 5000, 10000 or 20000 ppm (w/w) for males, and 0, 2500, 5000 or 10000 ppm for females. The highest dose level was chosen so as not to exceed the maximum tolerated dose (MTD), based on both growth rate and toxicity in a previous 13-week toxicity study. 2-Methyl-1-propanol was analyzed for purity and stability by both infrared spectrometry and gas chromatography before and after its use. The concentrations of 2-methyl-1-propanol in the drinking water were determined by gas chromatography at the time of preparation and on the 4th day after preparation, while stored at room temperature. The animals were observed daily for clinical signs and mortality. Body weight, water consumption and food consumption were measured once a week for the first 14 weeks and every 4 weeks thereafter. Animals found dead, in a moribund state, or surviving to the end of the 2-year administration period underwent complete necropsy. Urinalysis was performed near the end of the administration period. For hematology and blood biochemistry at the terminal necropsy, surviving animals were fasted overnight and bled under deep ether anesthesia. Organs and tissues were removed, weighed and examined for macroscopic lesions at necropsy. The organs and tissues were then fixed and embedded in paraffin. Five µm thick tissue sections were prepared and stained with hematoxylin and eosin and examined microscopically. Incidences of neoplastic lesions were statistically analyzed by Fisher's exact test. Any positive dose-response trends of 2-methyl-1-propanol induction of neoplastic lesions were analyzed by Peto's test. Incidences of non-neoplastic lesions and urinalysis were analyzed by the Chi-square test. Changes in body weight, food consumption, hematological and blood biochemical parameters, and organ weights were analyzed by Dunnett's test. The present studies were conducted in accordance with the Organisation for Economic Co-operation and Development (OECD) Good Laboratory Practice and with reference to the OECD Guideline for

Testing of Chemicals 451 “Carcinogenicity Studies”.

### **Results**

No significant differences in survival rates were found between any of the groups administered 2-methyl-1-propanol and their respective controls. The growth rates of the females administered 10000 ppm were slightly suppressed toward the end of the administration periods, and body weights at 104 weeks were 88% of the control. Food consumption in the 5000 ppm- and 10000 ppm-administered females showed temporary decreases. Food consumption in the 5000 ppm-administered males also showed temporary decreases. Food consumption in the 10000-administered males decreased substantially, and consumption in the 20000-administered males was decreased for most of the 2-year administration period. Water consumption was decreased through the most of the 2-year administration period in males administered 2500 ppm or above and in females administered 5000 ppm or above. No other clinical signs were observed.

No significant increases in the incidence of neoplastic or tumor-related lesions was found in any of the 2-methyl-1-propanol-administered groups of either sex compared with their respective controls; nor was there a change in any other parameter in any of the groups.

The no-observed-adverse-effect-level (NOAEL) of 2-methyl-1-propanol in the drinking water was 20000 ppm (1796 mg/kg body weight per day) in males and 5000 ppm (664 mg/kg body weight per day) for the endpoint of body weight in females.

### **Conclusions**

There was no evidence of carcinogenic activity of 2-methyl-1-propanol in male or female mice.

Incidences of selected neoplastic lesions of male mice in the 2-year drinking water carcinogenicity study of 2-Methyl-1-propanol

Dose (ppm)		0	5000	10000	20000	Peto test	Cochran-Armitage test
Number of examined animals		50	50	50	50		
benign tumor							
lung	bronchiolar-alveolar adenoma	7	4	4	3		
liver	hepatocellular adenoma	12	7	14	7		
malignant tumor							
lung	bronchiolar-alveolar carcinoma	4	10	7	5		
lymph node	malignant lymphoma	13	6	6	6		
liver	hepatocellular carcinoma	6	9	6	6		
	histiocytic sarcoma	3	3	1	4		
	hemangiosarcoma	1	2	3	1		

Incidences of selected neoplastic lesions of female mice in the 2-year drinking water carcinogenicity study of 2-Methyl-1-propanol

Dose (ppm)		0	2500	5000	10000	Peto test	Cochran-Armitage test
Number of examined animals		50	50	50	50		
benign tumor							
liver	hepatocellular adenoma	3	1	4	1		
	hemangioma	3	3	3	1		
pituitary	adenoma	12	9	5	6		
ovary	cystadenoma	0	0	3	1		
	hemangioma	0	1	4	0		
Harderian gland	adenoma	3	2	0	4		
malignant tumor							
lung	bronchiolar-alveolar carcinoma	2	2	1	3		
lymph node	malignant lymphoma	12	18	19	16		
uterus	histiocytic sarcoma	8	14	7	14		

Significant difference

\* :  $p \leq 0.05$

↑ :  $p \leq 0.05$  increase

↓ :  $p \leq 0.05$  decrease

\*\* :  $p \leq 0.01$

↑ ↑ :  $p \leq 0.01$  increase

↓ ↓ :  $p \leq 0.01$  decrease

(Fisher test)

(Peto, Cochran-Armitage test)

(Cochran-Armitage test)

## SELECTED TABLES

TABLE C 1 BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS:  
MALE

TABLE C 2 BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS:  
FEMALE

TABLE C 3 BODY WEIGHT CHANGES: MALE

TABLE C 4 BODY WEIGHT CHANGES: FEMALE

TABLE D 1 FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL  
NUMBERS: MALE

TABLE D 2 FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL  
NUMBERS: FEMALE

TABLE D 3 FOOD CONSUMPTION CHANGES: MALE

TABLE D 4 FOOD CONSUMPTION CHANGES: FEMALE

TABLE E 1 WATER CONSUMPTION CHANGES AND SURVIVAL ANIMAL  
NUMBERS: MALE

TABLE E 2 WATER CONSUMPTION CHANGES AND SURVIVAL ANIMAL  
NUMBERS: FEMALE

TABLE E 3 WATER CONSUMPTION CHANGES: MALE

TABLE E 4 WATER CONSUMPTION CHANGES: FEMALE

TABLE F 1 CHEMICAL INTAKE CHANGES: MALE

TABLE F 2 CHEMICAL INTAKE CHANGES: FEMALE

TABLE G 1 HEMATOLOGY: MALE

TABLE G 2 HEMATOLOGY: FEMALE

TABLE H 1 BIOCHEMISTRY: MALE

TABLE H 2 BIOCHEMISTRY: FEMALE

TABLE I 1 URINALYSIS: MALE

TABLE I 2 URINALYSIS: FEMALE

TABLE K 1 ORGAN WEIGHT, ABSOLUTE: MALE

TABLE K 2 ORGAN WEIGHT, ABSOLUTE: FEMALE

TABLE L 1 ORGAN WEIGHT, RELATIVE: MALE

TABLE L 2 ORGAN WEIGHT, RELATIVE: FEMALE

TABLE M 1 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS:  
MALE: ALL ANIMALS

TABLE M 4 HISTOPATHOLOGICAL FINDINGS: NON-NEOPLASTIC LESIONS:  
FEMALE: ALL ANIMALS

TABLE P 1 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS:  
MALE

TABLE P 2 NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS:  
FEMALE

TABLE R 1 CAUSE OF DEATH: MALE

TABLE R 2 CAUSE OF DEATH: FEMALE

TABLE C 1

BODY WEIGHT CHANGES AND  
SURVIVAL ANIMAL NUMBERS: MALE



MEAN BODY WEIGHTS AND SURVIVAL

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[Crlj-BDF1]  
 UNIT : 8  
 REPORT TYPE : A1 104  
 SEX : MALE

PAGE : 1

Week-Day on Study	Control				5000 ppm				10000 ppm				20000 ppm			
	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>
0-0	23.9 (50)	50/50	23.9 (50)	100	23.9 (50)	50/50	23.9 (50)	100	23.9 (50)	50/50	23.9 (50)	100	23.9 (50)	50/50	23.9 (50)	100
1-7	24.5 (50)	50/50	24.3 (50)	99	24.5 (50)	50/50	24.5 (50)	100	24.5 (50)	50/50	24.4 (50)	100	24.4 (50)	50/50	24.4 (50)	100
2-7	25.4 (50)	50/50	25.2 (50)	99	25.4 (50)	50/50	25.4 (50)	100	25.4 (50)	50/50	25.3 (50)	100	25.3 (50)	50/50	25.3 (50)	100
3-7	26.4 (50)	50/50	26.2 (50)	99	26.4 (50)	50/50	26.4 (50)	100	26.4 (50)	50/50	26.3 (50)	100	26.3 (50)	50/50	26.3 (50)	100
4-7	27.0 (50)	50/50	26.8 (50)	99	27.0 (50)	50/50	27.2 (50)	101	27.2 (50)	50/50	26.9 (50)	100	26.9 (50)	50/50	26.9 (50)	100
5-7	27.4 (50)	50/50	27.7 (50)	101	27.4 (50)	50/50	27.8 (50)	101	27.8 (50)	50/50	27.6 (50)	101	27.6 (50)	50/50	27.6 (50)	101
6-7	28.0 (50)	50/50	28.3 (50)	101	28.0 (50)	50/50	28.4 (50)	101	28.4 (50)	50/50	28.1 (50)	100	28.1 (50)	50/50	28.1 (50)	100
7-7	28.5 (50)	50/50	28.7 (50)	101	28.5 (50)	50/50	28.9 (50)	101	28.9 (50)	50/50	28.4 (50)	100	28.4 (50)	50/50	28.4 (50)	100
8-7	29.0 (50)	50/50	29.3 (50)	101	29.0 (50)	50/50	29.3 (50)	101	29.3 (50)	50/50	29.1 (50)	100	29.1 (50)	50/50	29.1 (50)	100
9-7	30.0 (50)	50/50	30.3 (50)	101	30.0 (50)	50/50	30.6 (50)	102	30.6 (50)	50/50	30.0 (50)	100	30.0 (50)	50/50	30.0 (50)	100
10-7	30.6 (50)	50/50	31.0 (50)	101	30.6 (50)	50/50	31.2 (50)	102	31.2 (50)	50/50	30.5 (50)	100	30.5 (50)	50/50	30.5 (50)	100
11-7	30.9 (50)	50/50	31.4 (50)	102	30.9 (50)	50/50	31.7 (50)	103	31.7 (50)	50/50	31.0 (50)	100	31.0 (50)	50/50	31.0 (50)	100
12-7	31.9 (50)	50/50	32.4 (50)	102	31.9 (50)	50/50	32.5 (50)	102	32.5 (50)	50/50	31.8 (50)	100	31.8 (50)	50/50	31.8 (50)	100
13-7	32.9 (50)	50/50	33.2 (50)	101	32.9 (50)	50/50	33.3 (50)	101	33.3 (50)	50/50	32.5 (50)	99	32.5 (50)	50/50	32.5 (50)	99
14-7	32.9 (50)	50/50	33.6 (50)	102	32.9 (50)	50/50	33.8 (50)	103	33.8 (50)	50/50	33.0 (50)	100	33.0 (50)	50/50	33.0 (50)	100
18-7	35.2 (50)	50/50	35.8 (50)	102	35.2 (50)	50/50	36.0 (50)	102	36.0 (50)	50/50	34.9 (50)	99	34.9 (50)	50/50	34.9 (50)	99
22-7	37.2 (50)	50/50	37.9 (50)	102	37.2 (50)	50/50	37.8 (50)	102	37.8 (50)	50/50	36.6 (50)	98	36.6 (50)	50/50	36.6 (50)	98
26-7	39.2 (50)	50/50	39.6 (50)	101	39.2 (50)	50/50	39.6 (50)	101	39.6 (50)	50/50	38.0 (50)	97	38.0 (50)	50/50	38.0 (50)	97
30-7	41.3 (50)	50/50	41.6 (49)	101	41.3 (50)	49/50	41.5 (50)	100	41.5 (50)	50/50	39.9 (50)	97	39.9 (50)	50/50	39.9 (50)	97
34-7	42.4 (50)	50/50	42.8 (49)	101	42.4 (50)	49/50	42.6 (50)	100	42.6 (50)	50/50	40.9 (50)	96	40.9 (50)	50/50	40.9 (50)	96
38-7	43.9 (50)	50/50	44.2 (49)	101	43.9 (50)	49/50	43.9 (50)	100	43.9 (50)	50/50	42.1 (50)	96	42.1 (50)	50/50	42.1 (50)	96
42-7	44.9 (50)	50/50	45.2 (49)	101	44.9 (50)	49/50	44.7 (50)	100	44.7 (50)	50/50	43.1 (50)	96	43.1 (50)	50/50	43.1 (50)	96
46-7	46.3 (50)	50/50	46.3 (49)	100	46.3 (50)	49/50	45.8 (50)	99	45.8 (50)	50/50	44.2 (50)	95	44.2 (50)	50/50	44.2 (50)	95
50-7	47.5 (50)	50/50	47.6 (49)	100	47.5 (50)	49/50	47.1 (50)	99	47.1 (50)	50/50	45.4 (50)	96	45.4 (50)	50/50	45.4 (50)	96
54-7	48.6 (50)	50/50	48.5 (49)	100	48.6 (50)	49/50	48.1 (50)	99	48.1 (50)	50/50	46.4 (50)	95	46.4 (50)	50/50	46.4 (50)	95
58-7	49.2 (50)	50/50	49.1 (49)	100	49.2 (50)	49/50	48.6 (49)	99	48.6 (49)	50/50	47.1 (49)	96	47.1 (49)	49/50	47.1 (49)	96
62-7	49.6 (50)	50/50	49.1 (49)	100	49.6 (50)	49/50	48.9 (49)	99	48.9 (49)	49/50	47.5 (49)	96	47.5 (49)	49/50	47.5 (49)	96
66-7	49.3 (50)	50/50	49.3 (49)	100	49.3 (50)	49/50	49.4 (49)	100	49.4 (49)	49/50	47.9 (49)	97	47.9 (49)	49/50	47.9 (49)	97
70-7	49.9 (49)	49/50	50.2 (47)	101	49.9 (49)	47/50	49.8 (49)	100	49.8 (49)	49/50	48.4 (49)	97	48.4 (49)	49/50	48.4 (49)	97
74-7	50.6 (47)	47/50	50.4 (47)	100	50.6 (47)	47/50	50.0 (48)	99	50.0 (48)	48/50	48.6 (49)	96	48.6 (49)	49/50	48.6 (49)	96
78-7	50.2 (47)	47/50	49.4 (46)	98	50.2 (47)	46/50	49.3 (48)	98	49.3 (48)	48/50	47.9 (49)	95	47.9 (49)	49/50	47.9 (49)	95
82-7	50.5 (46)	46/50	50.1 (43)	99	50.5 (46)	43/50	49.6 (46)	98	49.6 (46)	46/50	48.4 (48)	96	48.4 (48)	48/50	48.4 (48)	96
86-7	51.1 (44)	44/50	49.9 (41)	98	51.1 (44)	41/50	49.8 (45)	97	49.8 (45)	45/50	48.1 (48)	94	48.1 (48)	48/50	48.1 (48)	94
90-7	49.6 (41)	41/50	49.4 (40)	100	49.6 (41)	40/50	50.1 (43)	101	50.1 (43)	43/50	49.5 (45)	100	49.5 (45)	45/50	49.5 (45)	100
94-7	48.0 (40)	40/50	49.1 (38)	102	48.0 (40)	38/50	49.0 (41)	102	49.0 (41)	41/50	48.9 (45)	102	48.9 (45)	45/50	48.9 (45)	102
98-7	47.8 (38)	38/50	47.1 (36)	103	47.8 (38)	35/50	48.6 (36)	104	48.6 (36)	36/50	48.6 (45)	102	48.6 (45)	45/50	48.6 (45)	102
102-7	46.2 (35)	35/50	47.5 (35)	103	46.2 (35)	35/50	48.2 (36)	104	48.2 (36)	36/50	47.5 (41)	103	47.5 (41)	41/50	47.5 (41)	103
104-7	45.5 (35)	35/50	47.8 (33)	105	45.5 (35)	33/50	47.5 (36)	104	47.5 (36)	36/50	46.8 (41)	103	46.8 (41)	41/50	46.8 (41)	103

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

(B10040)

BAIS 4

TABLE C 2

BODY WEIGHT CHANGES AND  
SURVIVAL ANIMAL NUMBERS: FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj-BDF1]  
 UNIT : K  
 REPORT TYPE : A1 104  
 SEX : FEMALE

PAGE : 2

Week-Day on Study	Control				2500 ppm				5000 ppm				10000 ppm			
	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>	Av. Wt.	No. of Surviv. <50>	Av. Wt.	% of cont. <50>
0-0	19.5 (50)	50/50	19.5 (50)	100	19.5 (50)	50/50	19.5 (50)	100	19.5 (50)	50/50	19.5 (50)	100	19.5 (50)	50/50	19.5 (50)	100
1-7	19.8 (50)	50/50	19.5 (50)	98	19.8 (50)	50/50	19.8 (50)	100	19.8 (50)	50/50	19.8 (50)	100	19.8 (50)	50/50	19.8 (50)	100
2-7	20.4 (50)	50/50	20.3 (50)	100	20.3 (50)	50/50	20.3 (50)	100	20.3 (50)	50/50	20.3 (50)	100	20.3 (50)	50/50	20.3 (50)	100
3-7	21.0 (50)	50/50	21.0 (50)	100	21.0 (50)	50/50	21.0 (50)	100	21.0 (50)	50/50	21.0 (50)	100	21.0 (50)	50/50	21.0 (50)	100
4-7	21.5 (50)	50/50	21.5 (50)	100	21.5 (50)	50/50	21.5 (50)	100	21.4 (50)	50/50	21.4 (50)	100	21.6 (50)	50/50	21.6 (50)	100
5-7	22.1 (50)	50/50	22.0 (50)	100	22.0 (50)	50/50	22.0 (50)	100	22.0 (50)	50/50	22.0 (50)	100	22.0 (50)	50/50	22.0 (50)	100
6-7	22.4 (50)	50/50	22.4 (50)	100	22.4 (50)	50/50	22.4 (50)	100	22.3 (50)	50/50	22.3 (50)	100	22.4 (50)	50/50	22.4 (50)	100
7-7	22.8 (50)	50/50	22.8 (50)	100	22.8 (50)	50/50	22.8 (50)	100	22.8 (50)	50/50	22.8 (50)	100	22.7 (50)	50/50	22.7 (50)	100
8-7	23.2 (50)	50/50	23.5 (50)	101	23.5 (50)	50/50	23.5 (50)	101	23.1 (50)	50/50	23.1 (50)	100	23.3 (50)	50/50	23.3 (50)	100
9-7	23.6 (50)	50/50	23.8 (50)	101	23.8 (50)	50/50	23.8 (50)	101	23.4 (50)	50/50	23.4 (50)	99	23.7 (50)	50/50	23.7 (50)	100
10-7	24.2 (50)	50/50	24.0 (50)	99	24.0 (50)	50/50	24.0 (50)	99	23.9 (50)	50/50	23.9 (50)	99	23.9 (50)	50/50	23.9 (50)	99
11-7	24.0 (50)	50/50	24.2 (50)	101	24.2 (50)	50/50	24.2 (50)	101	23.8 (50)	50/50	23.8 (50)	99	23.9 (50)	50/50	23.9 (50)	100
12-7	24.6 (50)	50/50	24.3 (50)	99	24.3 (50)	50/50	24.3 (50)	99	24.2 (50)	50/50	24.2 (50)	98	24.3 (50)	50/50	24.3 (50)	99
13-7	24.8 (50)	50/50	24.8 (50)	100	24.8 (50)	50/50	24.8 (50)	100	24.3 (50)	50/50	24.3 (50)	98	24.5 (50)	50/50	24.5 (50)	99
14-7	25.0 (50)	50/50	25.1 (50)	100	25.1 (50)	50/50	25.1 (50)	100	24.8 (50)	50/50	24.8 (50)	98	24.6 (50)	50/50	24.6 (50)	98
18-7	26.0 (50)	50/50	26.3 (50)	101	26.3 (50)	50/50	26.3 (50)	101	25.6 (50)	50/50	25.6 (50)	98	26.1 (50)	50/50	26.1 (50)	100
22-7	27.0 (50)	50/50	27.3 (50)	101	27.3 (50)	50/50	27.3 (50)	101	26.6 (50)	50/50	26.6 (50)	99	26.8 (50)	50/50	26.8 (50)	99
26-7	27.6 (50)	50/50	27.9 (50)	101	27.9 (50)	50/50	27.9 (50)	101	27.9 (50)	50/50	27.9 (50)	99	27.9 (50)	50/50	27.9 (50)	101
30-7	29.0 (50)	50/50	28.9 (50)	100	28.9 (50)	50/50	28.9 (50)	100	28.0 (50)	50/50	28.0 (50)	97	28.7 (49)	49/50	28.7 (49)	99
34-7	29.5 (50)	50/50	29.5 (50)	100	29.5 (50)	50/50	29.5 (50)	100	28.8 (50)	50/50	28.8 (50)	98	29.1 (49)	49/50	29.1 (49)	99
38-7	30.8 (50)	50/50	30.6 (50)	99	30.6 (50)	50/50	30.6 (50)	99	30.2 (50)	50/50	30.2 (50)	98	30.1 (49)	49/50	30.1 (49)	98
42-7	31.1 (50)	50/50	31.0 (50)	100	31.0 (50)	50/50	31.0 (50)	100	30.1 (50)	50/50	30.1 (50)	97	30.3 (49)	49/50	30.3 (49)	97
46-7	32.2 (50)	50/50	31.8 (50)	99	31.8 (50)	50/50	31.8 (50)	99	31.2 (50)	50/50	31.2 (50)	97	31.3 (49)	49/50	31.3 (49)	97
50-7	33.2 (50)	50/50	32.7 (49)	98	32.7 (49)	49/50	32.7 (49)	98	32.1 (49)	49/50	32.1 (49)	97	32.3 (49)	49/50	32.3 (49)	97
54-7	33.9 (50)	50/50	33.3 (48)	98	33.3 (48)	48/50	33.3 (48)	98	32.5 (48)	48/50	32.5 (48)	96	33.0 (49)	49/50	33.0 (49)	97
58-7	34.3 (50)	50/50	34.4 (47)	100	34.4 (47)	47/50	34.4 (47)	100	32.7 (48)	48/50	32.7 (48)	95	33.2 (49)	49/50	33.2 (49)	97
62-7	34.8 (50)	50/50	34.6 (46)	99	34.6 (46)	46/50	34.6 (46)	99	32.7 (47)	47/50	32.7 (47)	94	33.3 (49)	49/50	33.3 (49)	96
66-7	35.5 (49)	49/50	34.7 (45)	98	34.7 (45)	45/50	34.7 (45)	98	33.3 (46)	46/50	33.3 (46)	94	33.7 (48)	48/50	33.7 (48)	95
70-7	35.7 (49)	49/50	34.9 (41)	98	34.9 (41)	41/50	34.9 (41)	98	33.5 (46)	46/50	33.5 (46)	94	34.2 (48)	48/50	34.2 (48)	96
74-7	35.9 (47)	47/50	34.7 (40)	97	34.7 (40)	40/50	34.7 (40)	97	33.5 (46)	46/50	33.5 (46)	94	34.2 (48)	48/50	34.2 (48)	96
78-7	35.4 (44)	44/50	34.7 (39)	98	34.7 (39)	39/50	34.7 (39)	98	34.0 (44)	44/50	34.0 (44)	95	33.7 (48)	48/50	33.7 (48)	94
82-7	36.2 (44)	44/50	35.4 (36)	98	35.4 (36)	36/50	35.4 (36)	98	33.9 (44)	44/50	33.9 (44)	96	33.4 (46)	46/50	33.4 (46)	94
86-7	36.9 (41)	41/50	35.5 (34)	96	35.5 (34)	34/50	35.5 (34)	96	34.1 (41)	41/50	34.1 (41)	94	34.3 (42)	42/50	34.3 (42)	95
90-7	36.8 (40)	40/50	35.9 (34)	98	35.9 (34)	34/50	35.9 (34)	98	34.1 (40)	40/50	34.1 (40)	92	34.5 (39)	39/50	34.5 (39)	93
94-7	36.3 (39)	39/50	35.3 (33)	97	35.3 (33)	33/50	35.3 (33)	97	34.5 (38)	38/50	34.5 (38)	94	33.7 (36)	36/50	33.7 (36)	92
98-7	36.2 (34)	34/50	35.9 (30)	99	35.9 (30)	30/50	35.9 (30)	99	34.3 (36)	36/50	34.3 (36)	94	33.6 (32)	32/50	33.6 (32)	93
102-7	35.8 (32)	32/50	34.8 (28)	97	34.8 (28)	28/50	34.8 (28)	97	34.5 (32)	32/50	34.5 (32)	96	33.2 (30)	30/50	33.2 (30)	92
104-7	35.6 (29)	29/50	33.4 (26)	94	33.4 (26)	26/50	33.4 (26)	94	34.2 (31)	31/50	34.2 (31)	96	33.8 (24)	24/50	33.8 (24)	94
									31.4 (20)	20/50	31.4 (20)	88				

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

(B10040)

BAIS 4

TABLE C 3

BODY WEIGHT CHANGES: MALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-L1[Crj:BDP1]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

GROUP NAME :  
 BODY WEIGHT CHANGES  
 ALL ANIMALS  
 (SUMMARY)

PAGE : 1

Group Name	Administration week-day					
	0-0	1-7	2-7	3-7	4-7	5-7
Control	23.9± 0.9	24.5± 0.9	25.4± 1.0	26.4± 1.1	27.0± 1.2	27.4± 1.3
5000 ppm	23.9± 0.9	24.3± 1.6	25.2± 1.4	26.2± 1.1	26.8± 1.2	27.7± 1.4
10000 ppm	23.9± 0.9	24.5± 1.0	25.4± 1.2	26.4± 1.2	27.2± 1.2	27.8± 1.3
20000 ppm	23.9± 0.9	24.4± 0.8	25.3± 0.8	26.2± 0.9	26.9± 1.1	27.6± 1.2

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

(HAN260)

BAIS 4

SEX : MALE

BODY WEIGHT CHANGES  
ALL ANIMALS

mid 00007  
6.17 -4.97  
6.17 -1.62  
8.17 -0.06  
6.77 -6.06  
1.77 -0.16  
6.77 -8.16  
6.77 -9.26

$$** : P \leq 0.01$$

(HAN260)

---

BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr:1j[BDF1]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES  
 ALL ANIMALS

(SUMMARY)

PAGE : 3

Group Name	Administration week day				
	14-7	18-7	22-7	26-7	30-7
Control	32.9± 2.4	35.2± 2.9	37.2± 3.2	39.2± 3.9	41.3± 4.2
5000 ppm	33.6± 2.4	35.8± 2.8	37.9± 3.1	39.6± 3.5	41.6± 3.7
10000 ppm	33.8± 2.7	36.0± 3.0	37.8± 3.3	39.6± 3.7	41.5± 4.0
20000 ppm	33.0± 2.4	34.9± 2.7	36.6± 3.2	38.0± 3.5	39.9± 3.9
				42.4± 4.5	43.9± 4.7
				42.8± 3.7	44.2± 4.1
				42.6± 4.2	43.9± 4.3
				40.9± 4.1	42.1± 4.3

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

(HAN260)

BATS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[BDF1]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

BODY WEIGHT CHANGES  
 ALL ANIMALS

(SUMMARY)

PAGE : 4

Group Name	Administration week day					
	42-7	46-7	50-7	54-7	58-7	62-7
Control	44.9± 4.7	46.3± 4.7	47.5± 4.6	48.6± 4.5	49.2± 4.4	49.6± 4.3
5000 ppm	45.2± 4.0	46.3± 3.8	47.6± 3.8	48.5± 3.7	49.1± 3.7	49.3± 4.9
10000 ppm	44.7± 4.5	45.8± 4.5	47.1± 4.6	48.1± 4.5	48.6± 3.9	48.9± 4.1
20000 ppm	43.1± 4.2	44.2± 4.3*	45.4± 4.5	46.4± 4.6*	47.1± 4.4*	47.5± 4.5

Test of Dunnett

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

(HAN260)

BAIS 4



STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDF1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : MALE

PAGE : 5

BODY WEIGHT CHANGES  
ALL ANIMALS

Group Name	Administration week-day					Test of Dunnett		
	70-7	74-7	78-7	82-7	86-7	90-7	94-7	
Control	49.9± 5.7	50.6± 5.2	50.2± 6.1	50.5± 5.9	51.1± 6.0	49.6± 6.6	48.0± 7.6	
5000 ppm	50.2± 4.6	50.4± 4.9	49.4± 6.2	50.1± 6.0	49.9± 5.4	49.4± 6.9	49.1± 5.9	
10000 ppm	49.8± 4.4	50.0± 4.8	49.3± 5.1	49.6± 5.1	49.8± 5.5	50.1± 6.0	49.0± 5.6	
20000 ppm	48.4± 4.5	48.6± 5.1	47.9± 5.2	48.4± 5.6	48.1± 6.9	49.5± 6.1	48.9± 6.4	
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$								
(HAN260)								
BATS 4								

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDP1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : MALE

BODY WEIGHT CHANGES  
 ALL ANIMALS

(SUMMARY)

PAGE : 6

Group Name	Administration week day		Test of Dunnett	
	98-7	102-7	104-7	
Control	47.8 ± 7.5	46.2 ± 7.3	45.5 ± 7.6	
5000 ppm	49.1 ± 6.0	47.5 ± 7.6	47.8 ± 7.3	
10000 ppm	49.6 ± 5.3	48.2 ± 5.3	47.5 ± 5.1	
20000 ppm	48.6 ± 6.7	47.5 ± 7.1	46.8 ± 7.7	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01				
(HAN260)				
				BAIS 4

TABLE C 4

BODY WEIGHT CHANGES: FEMALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDFl]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : FEMALE

PAGE : 7

BODY WEIGHT CHANGES  
ALL ANIMALS

Group Name	Administration week-day					
	0-0	1-7	2-7	3-7	4-7	5-7
Control	19.5± 0.9	19.8± 1.0	20.4± 0.9	21.0± 1.1	21.5± 1.1	22.1± 1.1
2500 ppm	19.5± 0.9	19.5± 1.2	20.3± 1.0	21.0± 1.0	21.5± 1.1	22.0± 1.0
5000 ppm	19.5± 0.9	19.8± 0.9	20.3± 0.8	21.0± 0.9	21.4± 0.9	22.0± 1.1
10000 ppm	19.5± 0.9	19.7± 0.9	20.4± 1.0	21.1± 1.0	21.6± 1.1	22.0± 1.1

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

(HAN260)

BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-Lj[Cr-j:BDPf]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

PAGE : 8

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	22.8 ± 1.1	23.2 ± 1.2	23.6 ± 1.2	24.2 ± 1.6	24.0 ± 1.2	24.6 ± 1.4	24.8 ± 1.5
2500 ppm	22.8 ± 1.2	23.5 ± 1.1	23.8 ± 1.3	24.0 ± 1.4	24.2 ± 1.6	24.3 ± 1.4	24.8 ± 1.6
5000 ppm	22.8 ± 1.1	23.1 ± 1.3	23.4 ± 1.4	23.9 ± 1.5	23.8 ± 1.5	24.2 ± 1.6	24.3 ± 1.7
10000 ppm	22.7 ± 1.2	23.3 ± 1.2	23.7 ± 1.3	23.9 ± 1.3	23.9 ± 1.5	24.3 ± 1.5	24.5 ± 1.6

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

(HAN260)

RAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-lj[Crj:BDNF]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

PAGE : 9

Group Name	Administration week day				
	14-7	18-7	22-7	26-7	30-7
Control	25.0± 1.4	26.0± 1.6	27.0± 1.7	27.6± 2.0	29.0± 2.5
2500 ppm	25.1± 1.5	26.3± 1.7	27.3± 2.3	27.9± 2.6	29.5± 2.8
5000 ppm	24.8± 1.7	25.6± 1.8	26.6± 1.9	27.3± 2.2	28.0± 2.8
10000 ppm	24.6± 1.6	26.1± 2.3	26.8± 2.1	27.9± 2.4	29.1± 3.0

Significant difference ;	* : $P \leq 0.05$	** : $P \leq 0.01$	Test of Dunnett
(HAN260)			BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr11[Crj:BDPL]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

PAGE : 10

BODY WEIGHT CHANGES  
ALL ANIMALS

(SUMMARY)

Group Name	Administration week-day				
	42-7	46-7	50-7	54-7	58-7
Control	31.1± 2.9	32.2± 3.3	33.2± 3.5	33.9± 4.4	34.3± 4.6
					34.8± 4.3
					35.5± 4.1
2500 ppm	31.0± 3.3	31.8± 3.9	32.7± 3.9	33.3± 4.5	34.4± 4.5
					34.6± 4.4
					34.7± 4.3
5000 ppm	30.1± 3.5	31.2± 4.0	32.1± 4.3	32.6± 4.6	32.7± 4.8
					33.3± 4.8
10000 ppm	30.3± 3.6	31.3± 3.9	32.3± 4.2	33.0± 4.0	33.2± 4.6
					33.3± 4.5
					33.7± 4.4

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

(HAN260)

RAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr:1j[BDF1]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

PAGE : 11

BODY WEIGHT CHANGES  
ALL ANIMALS

Group Name	Administration week-day					(SUMMARY)				
	70-7	74-7	78-7	82-7	86-7	90-7	94-7			
Control	35.7± 4.7	35.9± 4.9	35.4± 4.5	36.2± 4.7	36.9± 5.2	36.8± 5.1	36.3± 6.1			
2500 ppm	34.9± 4.0	34.7± 4.0	34.7± 4.1	35.4± 4.5	35.5± 4.6	35.9± 5.0	35.3± 4.6			
5000 ppm	33.5± 4.9	34.0± 4.3	33.9± 4.3	34.1± 4.5	34.1± 4.5*	34.5± 4.7	34.3± 4.7			
10000 ppm	34.2± 4.2	33.7± 4.7	33.4± 4.4	34.3± 4.4	34.5± 4.2	33.7± 4.1*	33.6± 3.8			

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

(HAN260)

BATS 4



STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[CrJ:BDFl]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

BODY WEIGHT CHANGES  
 ALL ANIMALS

(SUMMARY)

PAGE : 12

Group Name	Administration week-day		
	98-7	102-7	104-7
Control	36.2± 5.8	35.8± 6.1	35.6± 6.3
2500 ppm	35.9± 4.8	34.8± 3.8	33.4± 4.0
5000 ppm	34.5± 4.6	34.5± 4.9	34.2± 5.0
10000 ppm	33.2± 4.9	33.8± 6.3	31.4± 3.8**
Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett			
(HAN260)			
BATS 4			

TABLE D 1

FOOD CONSUMPTION CHANGES AND  
SURVIVAL ANIMAL NUMBERS: MALE

MEAN FOOD CONSUMPTION (FC) AND SURVIVAL

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj-BDF1]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

PAGE : 1

Week-Day on Study	Control				5000 ppm				10000 ppm				20000 ppm			
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>
1-7	3.8 (50)	50/50	3.8 (49)	100	3.8 (50)	50/50	3.8 (50)	100	3.8 (50)	50/50	3.6 (50)	95	3.6 (50)	50/50	3.6 (50)	95
2-7	3.8 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.7 (49)	97	3.7 (49)	50/50	3.7 (49)	97
3-7	3.8 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.7 (50)	97
4-7	3.9 (50)	50/50	3.8 (50)	97	3.8 (50)	50/50	3.8 (50)	97	3.8 (50)	50/50	3.8 (50)	97	3.8 (50)	50/50	3.8 (50)	97
5-7	3.9 (50)	50/50	3.9 (50)	100	3.9 (50)	50/50	3.9 (50)	100	3.9 (50)	50/50	3.9 (50)	95	3.9 (50)	50/50	3.9 (50)	95
6-7	3.9 (50)	50/50	3.8 (50)	97	3.8 (50)	50/50	3.8 (50)	97	3.8 (50)	50/50	3.8 (50)	97	3.8 (50)	50/50	3.8 (50)	97
7-7	4.0 (50)	50/50	3.9 (50)	98	3.9 (50)	50/50	3.9 (50)	98	3.9 (50)	50/50	3.8 (50)	95	3.8 (50)	50/50	3.8 (50)	95
8-7	4.1 (50)	50/50	4.0 (50)	98	4.0 (50)	50/50	4.0 (50)	98	4.0 (50)	50/50	4.0 (50)	98	4.0 (50)	50/50	4.0 (50)	98
9-7	4.2 (50)	50/50	4.2 (50)	100	4.2 (50)	50/50	4.1 (50)	98	4.1 (50)	50/50	4.1 (50)	98	4.1 (50)	50/50	4.1 (50)	98
10-7	4.2 (50)	50/50	4.1 (50)	98	4.1 (50)	50/50	4.1 (50)	98	4.1 (50)	50/50	4.0 (50)	95	4.0 (50)	50/50	4.0 (50)	95
11-7	4.2 (50)	50/50	4.1 (50)	98	4.1 (50)	50/50	4.1 (50)	98	4.1 (50)	50/50	4.0 (50)	95	4.0 (50)	50/50	4.0 (50)	95
12-7	4.2 (50)	50/50	4.0 (50)	95	4.0 (50)	50/50	4.0 (50)	95	4.0 (50)	50/50	4.0 (50)	95	4.0 (50)	50/50	4.0 (50)	95
13-7	4.3 (50)	50/50	4.1 (50)	95	4.1 (50)	50/50	4.1 (50)	95	4.1 (50)	50/50	4.0 (50)	93	4.0 (50)	50/50	4.0 (50)	93
14-7	3.9 (50)	50/50	3.9 (50)	100	3.9 (50)	50/50	3.9 (50)	100	3.9 (50)	50/50	3.9 (50)	100	3.9 (50)	50/50	3.9 (50)	100
18-7	4.1 (50)	50/50	4.0 (50)	98	4.0 (50)	50/50	4.0 (50)	98	4.0 (50)	50/50	3.9 (50)	95	3.9 (50)	50/50	3.9 (50)	95
22-7	4.2 (50)	50/50	4.1 (50)	95	4.1 (50)	50/50	4.1 (50)	95	4.1 (50)	50/50	4.0 (50)	95	4.0 (50)	50/50	4.0 (50)	95
26-7	4.4 (50)	50/50	4.2 (50)	95	4.2 (50)	50/50	4.2 (50)	95	4.2 (50)	50/50	4.1 (50)	93	4.1 (50)	50/50	4.1 (50)	93
30-7	4.3 (50)	50/50	4.2 (49)	98	4.2 (49)	49/50	4.2 (50)	98	4.2 (50)	50/50	4.1 (50)	95	4.1 (50)	50/50	4.1 (50)	95
34-7	4.3 (50)	50/50	4.2 (49)	98	4.2 (49)	49/50	4.2 (50)	98	4.2 (50)	50/50	4.1 (50)	95	4.1 (50)	50/50	4.1 (50)	95
38-7	4.4 (50)	50/50	4.3 (49)	98	4.3 (49)	49/50	4.2 (50)	95	4.2 (50)	50/50	4.2 (50)	95	4.2 (50)	50/50	4.2 (50)	95
42-7	4.5 (50)	50/50	4.4 (49)	98	4.4 (49)	49/50	4.3 (50)	96	4.3 (50)	50/50	4.3 (50)	96	4.3 (50)	50/50	4.3 (50)	96
46-7	4.4 (50)	50/50	4.3 (49)	98	4.3 (49)	49/50	4.2 (50)	95	4.2 (50)	50/50	4.2 (50)	95	4.2 (50)	50/50	4.2 (50)	95
50-7	4.4 (50)	50/50	4.3 (49)	98	4.3 (49)	49/50	4.2 (50)	95	4.2 (50)	50/50	4.2 (50)	95	4.2 (50)	50/50	4.2 (50)	95
54-7	4.4 (50)	50/50	4.2 (49)	95	4.2 (49)	49/50	4.1 (50)	93	4.1 (50)	50/50	4.0 (50)	91	4.0 (50)	50/50	4.0 (50)	91
58-7	4.4 (50)	50/50	4.2 (49)	95	4.2 (49)	49/50	4.1 (49)	93	4.1 (49)	49/50	4.2 (49)	95	4.2 (49)	49/50	4.2 (49)	95
62-7	4.7 (50)	50/50	4.5 (49)	96	4.5 (49)	49/50	4.3 (49)	91	4.3 (49)	49/50	4.3 (49)	91	4.3 (49)	49/50	4.3 (49)	91
66-7	4.6 (50)	50/50	4.6 (49)	100	4.6 (49)	49/50	4.5 (49)	98	4.5 (49)	49/50	4.3 (49)	93	4.3 (49)	49/50	4.3 (49)	93
70-7	4.8 (49)	49/50	4.8 (47)	100	4.8 (47)	47/50	4.6 (49)	96	4.6 (49)	49/50	4.5 (49)	94	4.5 (49)	49/50	4.5 (49)	94
74-7	5.0 (47)	47/50	4.8 (47)	96	4.8 (47)	47/50	4.7 (48)	94	4.7 (48)	48/50	4.6 (49)	92	4.6 (49)	49/50	4.6 (49)	92
78-7	4.9 (47)	47/50	4.7 (46)	96	4.7 (46)	46/50	4.6 (48)	94	4.6 (48)	48/50	4.6 (49)	94	4.6 (49)	49/50	4.6 (49)	94
82-7	4.9 (46)	46/50	4.9 (43)	100	4.8 (46)	48/50	4.8 (46)	98	4.8 (46)	48/50	4.6 (48)	94	4.6 (48)	48/50	4.6 (48)	94
86-7	5.1 (44)	44/50	4.9 (41)	96	4.9 (41)	41/50	4.9 (45)	96	4.9 (45)	45/50	4.6 (48)	90	4.6 (48)	48/50	4.6 (48)	90
90-7	4.8 (41)	41/50	4.8 (40)	100	4.8 (40)	40/50	4.8 (43)	100	4.8 (43)	43/50	4.7 (45)	98	4.7 (45)	45/50	4.7 (45)	98
94-7	4.8 (40)	40/50	4.8 (38)	100	4.8 (38)	38/50	4.7 (41)	98	4.7 (41)	41/50	4.5 (45)	94	4.5 (45)	45/50	4.5 (45)	94
98-7	5.2 (38)	38/50	5.0 (36)	96	5.0 (36)	36/50	4.9 (36)	94	4.9 (36)	36/50	4.6 (45)	88	4.6 (45)	45/50	4.6 (45)	88
102-7	5.0 (35)	35/50	4.8 (35)	96	4.8 (35)	35/50	4.6 (36)	92	4.6 (36)	36/50	4.5 (41)	90	4.5 (41)	41/50	4.5 (41)	90
104-7	4.9 (35)	35/50	4.8 (33)	98	4.8 (33)	33/50	4.6 (36)	94	4.6 (36)	36/50	4.4 (41)	90	4.4 (41)	41/50	4.4 (41)	90

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

Av. FC : g

(R10040)

BATS 4

TABLE D 2

FOOD CONSUMPTION CHANGES AND  
SURVIVAL ANIMAL NUMBERS: FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crlj-BDF1]  
 UNIT : 8  
 REPORT TYPE : A1 104  
 SEX : FEMALE

PAGE : 2

Week-Day on Study	Control				2500 ppm				5000 ppm				10000 ppm			
	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>	Av. FC.	No. of Surviv. <50>	Av. FC.	% of cont. <50>
1-7	3.4 (50)	50/50	3.3 (50)	97	3.4 (50)	50/50	3.4 (50)	100	3.4 (50)	50/50	3.4 (50)	100	3.4 (50)	100	50/50	50/50
2-7	3.4 (50)	50/50	3.3 (50)	97	3.3 (50)	50/50	3.3 (50)	97	3.3 (50)	50/50	3.3 (50)	97	3.3 (50)	97	50/50	50/50
3-7	3.5 (50)	50/50	3.4 (50)	97	3.3 (50)	50/50	3.3 (50)	94	3.4 (50)	50/50	3.4 (50)	97	3.4 (50)	97	50/50	50/50
4-7	3.4 (50)	50/50	3.4 (50)	100	3.3 (50)	50/50	3.3 (50)	97	3.3 (50)	50/50	3.3 (50)	97	3.3 (50)	97	50/50	50/50
5-7	3.5 (50)	50/50	3.5 (50)	100	3.5 (50)	50/50	3.5 (50)	100	3.5 (50)	50/50	3.5 (50)	100	3.4 (50)	97	50/50	50/50
6-7	3.6 (50)	50/50	3.5 (50)	97	3.4 (50)	50/50	3.4 (50)	94	3.4 (50)	50/50	3.4 (50)	94	3.4 (50)	94	50/50	50/50
7-7	3.7 (50)	50/50	3.7 (50)	100	3.6 (50)	50/50	3.6 (50)	97	3.6 (50)	50/50	3.5 (50)	95	3.5 (50)	95	50/50	50/50
8-7	3.8 (50)	50/50	3.8 (50)	100	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.8 (50)	100	3.8 (50)	100	50/50	50/50
9-7	3.8 (50)	50/50	3.8 (50)	100	3.8 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.8 (50)	100	3.8 (50)	100	50/50	50/50
10-7	3.9 (50)	50/50	3.8 (50)	97	3.7 (50)	50/50	3.7 (50)	95	3.7 (50)	50/50	3.7 (50)	95	3.7 (50)	95	50/50	50/50
11-7	3.8 (50)	50/50	3.8 (50)	100	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	97	50/50	50/50
12-7	3.8 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	97	50/50	50/50
13-7	3.8 (50)	50/50	3.8 (50)	100	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	97	50/50	50/50
14-7	3.6 (50)	50/50	3.7 (50)	103	3.6 (50)	50/50	3.6 (50)	100	3.6 (50)	50/50	3.5 (49)	97	3.5 (49)	97	50/50	50/50
18-7	3.6 (50)	50/50	3.7 (50)	103	3.7 (50)	50/50	3.5 (50)	97	3.5 (50)	50/50	3.6 (50)	100	3.6 (50)	100	50/50	50/50
22-7	3.8 (50)	50/50	3.8 (50)	100	3.8 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	97	50/50	50/50
26-7	3.9 (50)	50/50	4.0 (50)	103	3.9 (50)	50/50	3.9 (50)	100	3.9 (50)	50/50	4.0 (50)	103	4.0 (50)	103	50/50	50/50
30-7	3.8 (50)	50/50	3.8 (50)	100	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.8 (49)	100	3.8 (49)	100	49/50	49/50
34-7	3.8 (50)	50/50	3.8 (50)	100	3.7 (50)	50/50	3.7 (50)	97	3.7 (50)	50/50	3.8 (49)	95	3.8 (49)	95	49/50	49/50
38-7	4.0 (50)	50/50	3.9 (50)	98	3.9 (50)	50/50	3.9 (50)	98	3.9 (50)	50/50	3.8 (49)	93	3.8 (49)	93	49/50	49/50
42-7	4.1 (50)	50/50	4.0 (50)	98	4.0 (50)	50/50	3.9 (50)	95	3.9 (49)	50/50	3.8 (49)	95	3.8 (49)	95	49/50	49/50
46-7	3.9 (50)	50/50	3.9 (50)	100	3.9 (50)	50/50	3.9 (50)	100	3.9 (50)	50/50	3.8 (49)	97	3.8 (49)	97	49/50	49/50
50-7	4.1 (50)	50/50	3.9 (49)	95	3.9 (49)	50/50	3.9 (49)	95	3.9 (49)	50/50	3.9 (49)	95	3.9 (49)	95	49/50	49/50
54-7	4.0 (50)	50/50	3.8 (48)	95	3.8 (48)	50/50	3.8 (48)	95	3.8 (48)	50/50	3.9 (49)	98	3.9 (49)	98	49/50	49/50
58-7	3.8 (50)	50/50	3.9 (47)	103	3.9 (47)	50/50	3.6 (48)	93	3.6 (48)	47/50	3.7 (49)	97	3.7 (49)	97	49/50	49/50
62-7	4.1 (50)	50/50	4.0 (46)	98	4.0 (46)	46/50	3.8 (47)	93	3.8 (47)	47/50	3.9 (49)	95	3.9 (49)	95	49/50	49/50
66-7	4.2 (49)	49/50	4.0 (45)	95	4.0 (45)	45/50	4.0 (46)	95	4.0 (46)	46/50	3.9 (48)	93	3.9 (48)	93	48/50	48/50
70-7	4.1 (49)	49/50	4.1 (41)	100	4.1 (41)	41/50	4.0 (46)	98	4.0 (46)	46/50	4.0 (48)	98	4.0 (48)	98	48/50	48/50
74-7	4.0 (47)	47/50	4.1 (40)	103	4.1 (40)	40/50	3.9 (44)	98	3.9 (44)	44/50	3.7 (48)	93	3.7 (48)	93	48/50	48/50
78-7	4.0 (44)	44/50	4.0 (39)	100	3.8 (44)	39/50	3.8 (44)	95	3.8 (44)	44/50	3.8 (46)	95	3.8 (46)	95	46/50	46/50
82-7	4.1 (44)	44/50	4.3 (36)	105	4.1 (41)	36/50	4.1 (41)	100	4.1 (41)	41/50	4.0 (42)	98	4.0 (42)	98	42/50	42/50
86-7	4.4 (41)	41/50	4.2 (34)	95	4.2 (34)	34/50	4.3 (36)	98	4.3 (36)	36/50	4.1 (39)	93	4.1 (39)	93	39/50	39/50
90-7	4.5 (40)	40/50	4.2 (34)	93	4.1 (38)	34/50	4.1 (38)	91	4.1 (38)	38/50	4.0 (36)	89	4.0 (36)	89	36/50	36/50
94-7	4.3 (39)	39/50	4.4 (33)	102	4.3 (33)	33/50	4.3 (36)	100	4.3 (36)	36/50	3.8 (32)	88	3.8 (32)	88	32/50	32/50
98-7	4.6 (34)	34/50	4.4 (30)	96	4.4 (30)	30/50	4.4 (34)	96	4.4 (34)	34/50	3.9 (30)	85	3.9 (30)	85	30/50	30/50
102-7	4.2 (32)	32/50	4.2 (28)	100	4.2 (28)	28/50	4.2 (32)	100	4.2 (32)	32/50	4.0 (24)	95	4.0 (24)	95	24/50	24/50
104-7	4.3 (29)	29/50	4.2 (26)	98	4.2 (26)	26/50	4.2 (31)	98	4.2 (31)	31/50	3.9 (20)	91	3.9 (20)	91	20/50	20/50

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

(R10040)

BAIS 4

TABLE D 3

FOOD CONSUMPTION CHANGES: MALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[BDF1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 1

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	3.8± 0.3	3.8± 0.3	3.9± 0.2	3.9± 0.3	3.9± 0.3	4.0± 0.3
5000 ppm	3.8± 0.4	3.7± 0.3	3.7± 0.3	3.8± 0.3	3.9± 0.3	3.8± 0.2	3.9± 0.3
10000 ppm	3.8± 0.3	3.7± 0.2	3.7± 0.2	3.8± 0.2*	3.8± 0.3	3.8± 0.2	3.9± 0.3**
20000 ppm	3.6± 0.2**	3.7± 0.2**	3.7± 0.2**	3.8± 0.2*	3.7± 0.2*	3.8± 0.4**	3.8± 0.2**

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

(HAN260)

RATS 4

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	4.1± 0.3	4.2± 0.3	4.2± 0.3	4.2± 0.3	4.2± 0.3	4.3± 0.3	3.9± 0.3
5000 ppm	4.0± 0.2	4.2± 0.3	4.1± 0.3	4.1± 0.2	4.0± 0.2	4.1± 0.3*	3.9± 0.3
10000 ppm	4.0± 0.2**	4.1± 0.3	4.1± 0.2*	4.1± 0.3	4.0± 0.3*	4.1± 0.3**	3.9± 0.3
20000 ppm	4.0± 0.3*	4.1± 0.3*	4.0± 0.3**	4.0± 0.3**	4.0± 0.3**	4.0± 0.2**	3.9± 0.2

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



STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-Li[Cr-i:BDF1]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day(effective)						
	18-7(7)	22-7(7)	26-7(7)	30-7(7)	34-7(7)	38-7(7)	42-7(7)
Control	4.1± 0.3	4.2± 0.2	4.4± 0.3	4.3± 0.3	4.3± 0.3	4.4± 0.3	4.5± 0.3
5000 ppm	4.0± 0.2*	4.1± 0.3	4.2± 0.3*	4.2± 0.3	4.2± 0.3	4.3± 0.3*	4.4± 0.3
10000 ppm	3.9± 0.3**	4.0± 0.3**	4.2± 0.3*	4.1± 0.3**	4.2± 0.3	4.2± 0.3**	4.3± 0.3**
20000 ppm	3.9± 0.3**	4.0± 0.3**	4.1± 0.3**	4.2± 0.3	4.1± 0.3*	4.2± 0.3**	4.3± 0.3**
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01							
Test of Dunnett							
HA260							
BAIS 4							

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

(HAN260)

BALS 4

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDF1]  
UNIT : g  
REPORT TYPE : A1 104  
SEX : MALE

Group Name	Administration week-day(effective)						
	46-7 (7)	50-7 (7)	54-7 (7)	58-7 (7)	62-7 (7)	66-7 (7)	70-7 (7)
Control	4.4 ± 0.3	4.4 ± 0.3	4.4 ± 0.3	4.4 ± 0.3	4.7 ± 0.3	4.6 ± 0.6	4.8 ± 0.5
5000 ppm	4.3 ± 0.3	4.3 ± 0.3	4.2 ± 0.3**	4.2 ± 0.3**	4.5 ± 0.3**	4.6 ± 0.5	4.8 ± 0.3
10000 ppm	4.2 ± 0.3*	4.2 ± 0.3	4.1 ± 0.3**	4.1 ± 0.3**	4.3 ± 0.3**	4.5 ± 0.3**	4.6 ± 0.4**
20000 ppm	4.2 ± 0.3**	4.2 ± 0.3**	4.0 ± 0.3**	4.2 ± 0.3**	4.3 ± 0.3**	4.3 ± 0.3**	4.5 ± 0.3**

Test of Dunnett

(HAN260)

---

BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1J[BDF1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 5

Group Name	Administration week-day(effective)				
	74-7(7)	78-7(7)	82-7(7)	86-7(7)	90-7(7)
Control	5.0± 0.4	4.9± 0.4	4.9± 0.8	5.1± 0.4	4.8± 0.6
5000 ppm	4.8± 0.4	4.7± 0.8	4.9± 0.5	4.9± 0.7	4.8± 0.4
10000 ppm	4.7± 0.5**	4.6± 0.4**	4.8± 0.3	4.9± 0.3*	4.7± 0.5
20000 ppm	4.6± 0.3**	4.6± 0.3**	4.6± 0.4**	4.6± 0.5**	4.5± 0.4*
					4.6± 0.4**

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

(HAN260)

BATS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-Li[Cx-i:BDF1]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 6

Group Name	Administration week-day(effective)		Test of Dunnett
	102-7 (7)	104-7 (7)	
Control	5.0± 0.5	4.9± 0.5	
5000 ppm	4.8± 0.8	4.8± 0.7	
10000 ppm	4.6± 0.4**	4.6± 0.4*	
20000 ppm	4.5± 0.6**	4.4± 0.5**	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01			
(HAN260)			
BATS 4			

TABLE D 4

FOOD CONSUMPTION CHANGES: FEMALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ1[CrJ:BDFl]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 7

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	3.4± 0.3	3.4± 0.2	3.5± 0.2	3.4± 0.2	3.5± 0.2	3.6± 0.2	3.7± 0.2
2500 ppm	3.3± 0.3	3.3± 0.2	3.4± 0.2	3.4± 0.2	3.5± 0.2	3.5± 0.2	3.7± 0.2
5000 ppm	3.4± 0.3	3.3± 0.2	3.3± 0.2	3.3± 0.2*	3.5± 0.2	3.4± 0.2**	3.6± 0.2*
10000 ppm	3.4± 0.3	3.3± 0.2	3.4± 0.2	3.3± 0.2*	3.4± 0.2**	3.4± 0.2*	3.5± 0.2**

Test of Dunnett

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

(HAN260)

BAS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ1[CrJ:BDFl]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 8

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± 0.2	3.8± 0.2	3.9± 0.3	3.8± 0.3	3.8± 0.2	3.8± 0.3	3.6± 0.2
2500 ppm	3.8± 0.2	3.8± 0.2	3.8± 0.2	3.8± 0.3	3.7± 0.2	3.8± 0.2	3.7± 0.3
5000 ppm	3.7± 0.3	3.7± 0.2	3.7± 0.3**	3.7± 0.2	3.7± 0.3	3.7± 0.2	3.6± 0.3
10000 ppm	3.8± 0.3	3.8± 0.2	3.7± 0.3**	3.8± 0.2	3.7± 0.3	3.7± 0.3	3.5± 0.2
Significant difference ; * : P ≤ 0.05    ** : P ≤ 0.01							
Test of Dunnett							
(HAN260)							
BATS 4							

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-J[Cr-J:BDF1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 9

Group Name	Administration week-day(effective)				
	18-7 (7)	22-7 (7)	30-7 (7)	34-7 (7)	42-7 (7)
Control	3.6± 0.6	3.8± 0.3	3.9± 0.4	3.8± 0.4	4.1± 0.4
2500 ppm	3.7± 0.3	3.8± 0.3	4.0± 0.3	3.8± 0.4	4.0± 0.4
5000 ppm	3.5± 0.3	3.7± 0.3	3.9± 0.3	3.7± 0.3	3.9± 0.4
10000 ppm	3.6± 0.4	3.7± 0.3	4.0± 0.3	3.8± 0.4	3.8± 0.4**

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

Test of Dunnett

(HAN260)

BAS 4



STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crj-BDF1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 10

Group Name	Administration week-day(effective)						
	46-7(7)	50-7(7)	54-7(7)	58-7(7)	62-7(7)	66-7(7)	70-7(7)
Control	3.9± 0.4	4.1± 0.6	4.0± 0.5	3.8± 0.5	4.1± 0.6	4.2± 0.5	4.1± 0.6
2500 ppm	3.9± 0.4	3.9± 0.5	3.8± 0.4	3.9± 0.4	4.0± 0.5	4.0± 0.7*	4.1± 0.4
5000 ppm	3.9± 0.4	3.9± 0.4	3.8± 0.4	3.6± 0.4	3.8± 0.5*	4.0± 0.4*	4.0± 0.4
10000 ppm	3.8± 0.4	3.9± 0.4	3.9± 0.4	3.7± 0.5	3.9± 0.5	3.9± 0.4**	4.0± 0.5

Test of Dunnett

\*\* :  $P \leq 0.01$

\* :  $P \leq 0.05$

Significant difference ;

(HAN260)

BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:DDF1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 11

Group Name	Administration week-day(effective)						
	74-7(7)	78-7(7)	82-7(7)	86-7(7)	90-7(7)	94-7(7)	98-7(7)
Control	4.0± 0.6	4.0± 0.5	4.1± 0.6	4.4± 0.5	4.5± 0.6	4.3± 0.9	4.6± 0.7
2500 ppm	4.1± 0.5	4.0± 0.6	4.3± 0.6	4.2± 0.7	4.2± 0.6	4.4± 0.9	4.4± 0.7
5000 ppm	3.9± 0.5	3.8± 0.5	4.1± 0.5	4.3± 0.9	4.1± 0.5*	4.3± 0.5	4.4± 0.4
10000 ppm	3.7± 0.4	3.8± 0.4	4.0± 0.5	4.1± 0.5*	4.0± 0.8**	3.8± 0.5**	3.9± 0.7**
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01							
Test of Dunnett							
(HAN260)							
BAIS 4							

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crj[Crj:DDF1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 12

Group Name	Administration week-day(effective)	
	102-7(7)	104-7(7)
Control	4.2± 0.6	4.3± 0.8
2500 ppm	4.2± 0.7	4.2± 0.7
5000 ppm	4.2± 0.6	4.2± 0.6
10000 ppm	4.0± 0.5	3.9± 0.5
Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$		
Test of Dunnett		
(HAN260)		
BATS 4		

TABLE E 1

WATER CONSUMPTION CHANGES AND  
SURVIVAL ANIMAL NUMBERS: MALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crj[Crlj-BDF1]  
 UNIT : 8  
 REPORT TYPE : A1 104  
 SEX : MALE

MEAN WATER CONSUMPTION (WC) AND SURVIVAL

PAGE : 1

Week-Day on Study	Control				5000 ppm				10000 ppm				20000 ppm			
	Av. WC.	No. of Surviv. <50>	Av. WC.	% of cont. <50>	Av. WC.	No. of Surviv. <50>	Av. WC.	% of cont. <50>	Av. WC.	No. of Surviv. <50>	Av. WC.	% of cont. <50>	Av. WC.	No. of Surviv. <50>	Av. WC.	% of cont. <50>
1-7	4.5 (50)	50/50	4.0 (50)	89	4.0 (50)	50/50	4.0 (49)	89	50/50	50/50	3.7 (49)	82	50/50	50/50	3.7 (49)	82
2-7	4.3 (48)	50/50	4.0 (50)	93	4.0 (50)	50/50	3.9 (50)	91	50/50	50/50	3.7 (50)	86	50/50	50/50	3.7 (50)	86
3-7	4.3 (49)	50/50	4.0 (50)	93	4.0 (50)	50/50	3.8 (49)	88	50/50	50/50	3.6 (49)	84	50/50	50/50	3.6 (49)	84
4-7	4.2 (49)	50/50	3.8 (50)	90	3.8 (50)	50/50	3.7 (50)	88	50/50	50/50	3.4 (50)	81	50/50	50/50	3.4 (50)	81
5-7	4.5 (50)	50/50	3.8 (50)	84	3.8 (50)	50/50	3.6 (49)	80	50/50	50/50	3.5 (50)	78	50/50	50/50	3.5 (50)	78
6-7	4.2 (50)	50/50	3.7 (50)	88	3.7 (50)	50/50	3.5 (49)	83	50/50	50/50	3.3 (50)	79	50/50	50/50	3.3 (50)	79
7-7	4.3 (50)	50/50	3.8 (50)	88	3.8 (50)	50/50	3.6 (50)	84	50/50	50/50	3.3 (50)	77	50/50	50/50	3.3 (50)	77
8-7	4.2 (50)	50/50	3.7 (50)	88	3.7 (50)	50/50	3.5 (50)	83	50/50	50/50	3.2 (50)	76	50/50	50/50	3.2 (50)	76
9-7	4.1 (50)	50/50	3.6 (50)	88	3.6 (50)	50/50	3.3 (50)	80	50/50	50/50	3.1 (50)	76	50/50	50/50	3.1 (50)	76
10-7	4.0 (50)	50/50	3.4 (50)	85	3.4 (50)	50/50	3.2 (50)	80	50/50	50/50	3.0 (49)	75	50/50	50/50	3.0 (49)	75
11-7	3.8 (50)	50/50	3.4 (50)	89	3.4 (50)	50/50	3.2 (50)	84	50/50	50/50	3.0 (50)	79	50/50	50/50	3.0 (50)	79
12-7	3.9 (50)	50/50	3.4 (50)	87	3.4 (50)	50/50	3.2 (50)	82	50/50	50/50	3.0 (50)	77	50/50	50/50	3.0 (50)	77
13-7	3.8 (50)	50/50	3.3 (50)	87	3.3 (50)	50/50	3.1 (50)	82	50/50	50/50	2.9 (50)	76	50/50	50/50	2.9 (50)	76
14-7	3.9 (50)	50/50	3.4 (50)	87	3.4 (50)	50/50	3.2 (50)	82	50/50	50/50	3.1 (50)	79	50/50	50/50	3.1 (50)	79
18-7	3.8 (50)	50/50	3.3 (49)	87	3.3 (49)	50/50	3.3 (50)	87	50/50	50/50	2.9 (49)	76	50/50	50/50	2.9 (49)	76
22-7	3.8 (50)	50/50	3.3 (50)	87	3.3 (50)	50/50	3.1 (49)	82	50/50	50/50	2.8 (50)	74	50/50	50/50	2.8 (50)	74
26-7	3.7 (49)	50/50	3.3 (50)	89	3.3 (50)	50/50	3.2 (49)	86	50/50	50/50	3.0 (48)	81	50/50	50/50	3.0 (48)	81
30-7	3.7 (50)	50/50	3.3 (49)	89	3.3 (49)	49/50	3.1 (50)	84	50/50	50/50	2.9 (50)	78	50/50	50/50	2.9 (50)	78
34-7	3.8 (50)	50/50	3.3 (49)	87	3.3 (49)	49/50	3.1 (50)	82	50/50	50/50	2.9 (50)	76	50/50	50/50	2.9 (50)	76
38-7	3.8 (50)	50/50	3.3 (49)	87	3.3 (49)	49/50	3.2 (50)	84	50/50	50/50	3.0 (50)	79	50/50	50/50	3.0 (50)	79
42-7	3.8 (49)	50/50	3.4 (49)	89	3.4 (49)	49/50	3.2 (50)	84	50/50	50/50	3.0 (50)	79	50/50	50/50	3.0 (50)	79
46-7	3.9 (50)	50/50	3.3 (49)	85	3.3 (49)	49/50	3.2 (50)	82	50/50	50/50	3.0 (50)	77	50/50	50/50	3.0 (50)	77
50-7	3.8 (50)	50/50	3.3 (49)	87	3.3 (49)	49/50	3.3 (50)	87	50/50	50/50	2.9 (50)	76	50/50	50/50	2.9 (50)	76
54-7	3.9 (50)	50/50	3.3 (49)	85	3.3 (49)	49/50	3.3 (50)	85	50/50	50/50	3.1 (50)	79	50/50	50/50	3.1 (50)	79
58-7	3.8 (49)	50/50	3.3 (49)	87	3.3 (49)	49/50	3.2 (49)	85	49/50	49/50	3.1 (49)	82	49/50	49/50	3.1 (49)	82
62-7	4.1 (50)	50/50	3.5 (49)	85	3.5 (49)	49/50	3.5 (49)	85	49/50	49/50	3.3 (49)	80	49/50	49/50	3.3 (49)	80
66-7	4.2 (50)	50/50	3.7 (49)	88	3.7 (49)	49/50	3.6 (49)	86	49/50	49/50	3.3 (49)	79	49/50	49/50	3.3 (49)	79
70-7	4.3 (49)	49/50	3.7 (47)	86	3.7 (47)	47/50	3.6 (49)	84	49/50	49/50	3.4 (49)	79	49/50	49/50	3.4 (49)	79
74-7	4.3 (46)	47/50	3.8 (47)	88	3.8 (47)	47/50	3.7 (48)	86	48/50	48/50	3.5 (49)	81	49/50	49/50	3.5 (49)	81
78-7	4.6 (46)	47/50	3.9 (45)	85	3.9 (45)	46/50	3.9 (48)	85	48/50	48/50	3.7 (49)	80	49/50	49/50	3.7 (49)	80
82-7	4.4 (45)	46/50	4.0 (43)	91	4.0 (43)	43/50	3.9 (46)	89	46/50	46/50	3.6 (48)	82	48/50	48/50	3.6 (48)	82
86-7	4.4 (43)	44/50	3.7 (41)	84	3.7 (41)	41/50	3.9 (44)	89	45/50	45/50	3.4 (48)	77	48/50	48/50	3.4 (48)	77
90-7	4.5 (39)	41/50	4.0 (40)	89	4.0 (40)	40/50	3.8 (42)	84	43/50	43/50	3.7 (45)	82	45/50	45/50	3.7 (45)	82
94-7	4.7 (35)	40/50	4.1 (38)	87	4.1 (38)	38/50	4.0 (40)	85	41/50	41/50	3.8 (45)	81	45/50	45/50	3.8 (45)	81
98-7	4.9 (32)	38/50	4.4 (36)	90	4.4 (36)	36/50	4.2 (36)	86	36/50	36/50	3.8 (45)	78	45/50	45/50	3.8 (45)	78
102-7	4.9 (32)	35/50	4.1 (34)	84	4.1 (34)	35/50	4.2 (36)	86	36/50	36/50	3.9 (41)	80	41/50	41/50	3.9 (41)	80
104-7	4.9 (29)	35/50	4.1 (32)	84	4.1 (32)	33/50	4.1 (35)	84	33/50	36/50	3.9 (40)	80	41/50	41/50	3.9 (40)	80

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

(R10040)

BATS 4

TABLE E 2

WATER CONSUMPTION CHANGES AND  
SURVIVAL ANIMAL NUMBERS: FEMALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj-BDF1]  
 UNIT : 8  
 REPORT TYPE : A1 104  
 SEX : FEMALE

MEAN WATER CONSUMPTION(WC) AND SURVIVAL

PAGE : 2

Week-Day on Study	Control				2500 ppm				5000 ppm				10000 ppm			
	Av. WC.	No. of Surviv. <50>	Av. WC.	% of cont. <50>	No. of Surviv.	Av. WC.	% of cont. <50>	No. of Surviv.	Av. WC.	% of cont. <50>	No. of Surviv.	Av. WC.	% of cont. <50>	No. of Surviv.	Av. WC.	% of cont. <50>
1-7	4.3 (50)	50/50	3.8 (50)	88	50/50	3.8 (50)	88	50/50	3.8 (50)	88	50/50	3.8 (50)	88	50/50	3.8 (50)	88
2-7	4.1 (50)	50/50	3.9 (50)	95	50/50	3.7 (50)	90	50/50	3.7 (50)	90	50/50	3.7 (50)	90	50/50	3.7 (50)	90
3-7	4.1 (50)	50/50	3.9 (50)	95	50/50	3.8 (50)	93	50/50	3.8 (50)	93	50/50	3.8 (50)	93	50/50	3.8 (50)	93
4-7	4.0 (50)	50/50	3.9 (50)	98	50/50	3.7 (50)	93	50/50	3.7 (50)	93	50/50	3.6 (50)	90	50/50	3.6 (50)	90
5-7	4.1 (50)	50/50	3.8 (49)	93	50/50	3.7 (50)	90	50/50	3.7 (50)	90	50/50	3.6 (50)	88	50/50	3.6 (50)	88
6-7	4.1 (50)	50/50	3.9 (50)	95	50/50	3.6 (50)	88	50/50	3.6 (50)	88	50/50	3.7 (50)	90	50/50	3.7 (50)	90
7-7	4.3 (50)	50/50	4.2 (50)	98	50/50	4.0 (50)	93	50/50	3.9 (50)	91	50/50	3.9 (50)	91	50/50	3.9 (50)	91
8-7	4.0 (50)	50/50	3.9 (49)	98	50/50	3.9 (50)	98	50/50	3.8 (50)	95	50/50	3.8 (50)	95	50/50	3.8 (50)	95
9-7	4.0 (50)	50/50	3.9 (50)	98	50/50	3.7 (50)	93	50/50	3.6 (50)	90	50/50	3.6 (50)	90	50/50	3.6 (50)	90
10-7	4.0 (50)	50/50	3.8 (50)	95	50/50	3.6 (50)	90	50/50	3.6 (50)	90	50/50	3.7 (50)	93	50/50	3.7 (50)	93
11-7	3.8 (50)	50/50	3.8 (50)	100	50/50	3.5 (50)	92	50/50	3.5 (50)	92	50/50	3.7 (50)	97	50/50	3.7 (50)	97
12-7	3.8 (50)	50/50	3.7 (50)	97	50/50	3.7 (50)	97	50/50	3.7 (50)	97	50/50	3.6 (50)	95	50/50	3.6 (50)	95
13-7	3.9 (50)	50/50	3.7 (50)	95	50/50	3.5 (50)	90	50/50	3.5 (50)	90	50/50	3.5 (50)	90	50/50	3.5 (50)	90
14-7	3.8 (50)	50/50	3.7 (50)	97	50/50	3.6 (50)	95	50/50	3.6 (50)	95	50/50	3.4 (50)	89	50/50	3.4 (50)	89
18-7	4.2 (50)	50/50	3.8 (48)	90	50/50	3.6 (50)	86	50/50	3.6 (50)	86	50/50	3.6 (50)	86	50/50	3.6 (50)	86
22-7	4.1 (49)	50/50	3.7 (49)	90	50/50	3.7 (50)	90	50/50	3.7 (50)	90	50/50	3.5 (50)	85	50/50	3.5 (50)	85
26-7	4.0 (50)	50/50	3.7 (49)	93	50/50	3.6 (50)	90	50/50	3.6 (50)	90	50/50	3.7 (50)	93	50/50	3.7 (50)	93
30-7	4.0 (50)	50/50	3.6 (48)	90	50/50	3.4 (50)	85	50/50	3.4 (49)	85	49/50	3.4 (48)	85	49/50	3.4 (48)	85
34-7	4.0 (49)	50/50	3.6 (49)	90	50/50	3.7 (50)	97	50/50	3.7 (50)	97	50/50	3.4 (48)	89	49/50	3.4 (48)	89
38-7	3.8 (49)	50/50	3.6 (49)	95	50/50	3.6 (49)	90	50/50	3.6 (50)	92	50/50	3.3 (49)	85	49/50	3.3 (49)	85
42-7	3.9 (50)	50/50	3.5 (49)	90	50/50	3.6 (50)	92	50/50	3.6 (50)	92	50/50	3.3 (49)	85	49/50	3.3 (49)	85
46-7	3.9 (50)	50/50	3.5 (50)	90	50/50	3.4 (49)	87	50/50	3.4 (49)	87	50/50	3.3 (49)	85	49/50	3.3 (49)	85
50-7	3.9 (50)	50/50	3.4 (48)	87	49/50	3.4 (48)	89	48/50	3.4 (48)	89	48/50	3.2 (49)	82	49/50	3.2 (49)	82
54-7	3.8 (50)	50/50	3.5 (48)	92	48/50	3.4 (48)	89	48/50	3.4 (48)	89	48/50	3.2 (49)	86	49/50	3.2 (49)	86
58-7	3.7 (50)	50/50	3.5 (47)	95	47/50	3.2 (48)	86	48/50	3.2 (48)	86	48/50	3.2 (49)	86	49/50	3.2 (49)	86
62-7	3.9 (49)	50/50	3.6 (46)	92	46/50	3.5 (47)	90	47/50	3.5 (47)	90	47/50	3.3 (48)	85	48/50	3.3 (48)	85
66-7	4.1 (48)	49/50	3.7 (43)	90	45/50	3.4 (46)	83	46/50	3.4 (46)	83	46/50	3.3 (48)	80	48/50	3.3 (48)	80
70-7	4.0 (47)	49/50	3.7 (40)	93	41/50	3.5 (46)	88	46/50	3.5 (46)	88	46/50	3.1 (48)	78	48/50	3.1 (48)	78
74-7	4.3 (46)	47/50	3.9 (40)	91	40/50	3.5 (44)	83	44/50	3.5 (44)	83	44/50	3.3 (48)	77	48/50	3.3 (48)	77
78-7	4.2 (44)	44/50	3.8 (37)	90	39/50	3.5 (44)	81	44/50	3.5 (44)	81	44/50	3.4 (46)	81	46/50	3.4 (46)	81
82-7	4.1 (43)	44/50	3.9 (35)	95	36/50	3.6 (41)	88	41/50	3.6 (41)	88	41/50	3.4 (42)	83	42/50	3.4 (42)	83
86-7	4.2 (40)	41/50	3.5 (34)	83	34/50	3.5 (40)	83	40/50	3.5 (40)	83	40/50	3.4 (39)	81	39/50	3.4 (39)	81
90-7	4.3 (39)	40/50	3.7 (34)	86	34/50	3.6 (38)	84	38/50	3.6 (38)	84	38/50	3.3 (35)	77	36/50	3.3 (35)	77
94-7	4.3 (38)	39/50	3.9 (33)	91	33/50	3.7 (36)	86	36/50	3.7 (36)	86	36/50	3.5 (32)	81	32/50	3.5 (32)	81
98-7	4.3 (32)	34/50	4.1 (30)	95	30/50	3.8 (34)	88	34/50	3.8 (34)	88	34/50	3.5 (30)	81	30/50	3.5 (30)	81
102-7	4.3 (32)	32/50	3.9 (28)	91	28/50	3.7 (32)	86	32/50	3.7 (32)	86	32/50	3.8 (24)	88	24/50	3.8 (24)	88
104-7	4.2 (29)	29/50	3.7 (26)	88	26/50	3.7 (31)	88	31/50	3.7 (31)	88	31/50	3.8 (20)	90	20/50	3.8 (20)	90

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

Av. WC. : g

(B10040)

BATS 4

TABLE E 3

WATER CONSUMPTION CHANGES: MALE



STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDF1]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 1

Group Name	Administration week-day(effective)						
	1-7(3)	2-7(3)	3-7(3)	4-7(3)	5-7(3)	6-7(3)	7-7(3)
Control	4.5± 0.7	4.3± 0.8	4.3± 0.8	4.2± 0.7	4.5± 0.9	4.2± 0.9	4.3± 0.7
5000 ppm	4.0± 0.9**	4.0± 0.7	4.0± 0.7	3.8± 0.7*	3.8± 0.6**	3.7± 0.7**	3.8± 0.7**
10000 ppm	4.0± 0.8**	3.9± 0.8*	3.8± 0.6**	3.7± 0.8**	3.6± 0.6**	3.5± 0.5**	3.6± 0.7**
20000 ppm	3.7± 0.5**	3.7± 0.8**	3.6± 0.4**	3.4± 0.6**	3.5± 0.5**	3.3± 0.5**	3.3± 0.4**

Test of Dunnett

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

(HAN260)

BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[Gr.j:BDFl]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 2

Group Name	Administration week-day(effective)				
	8-7(3)	9-7(3)	10-7(3)	11-7(3)	12-7(3)
Control	4.2± 0.7	4.1± 0.6	4.0± 0.7	3.8± 0.6	3.9± 0.6
5000 ppm	3.7± 0.7**	3.6± 0.6**	3.4± 0.6**	3.4± 0.5**	3.4± 0.5**
10000 ppm	3.5± 0.6**	3.3± 0.5**	3.2± 0.5**	3.2± 0.4**	3.2± 0.4**
20000 ppm	3.2± 0.6**	3.1± 0.4**	3.0± 0.4**	3.0± 0.4**	3.1± 0.4**

Test of Dunnett

\*\* : P ≤ 0.01

\* : P ≤ 0.05

Significant difference ;

(HAN260)

BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-1j[BDF1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 3

Group Name	Administration week-day(effective)				
	18-7(3)	22-7(3)	26-7(3)	30-7(3)	34-7(3)
Control	3.8± 0.5	3.8± 0.4	3.7± 0.3	3.7± 0.3	3.8± 0.4
5000 ppm	3.3± 0.4**	3.3± 0.3**	3.3± 0.3**	3.3± 0.5**	3.4± 0.3**
10000 ppm	3.3± 0.6**	3.1± 0.4**	3.2± 0.6**	3.1± 0.4**	3.2± 0.4**
20000 ppm	2.9± 0.4**	2.8± 0.3**	3.0± 0.5**	2.9± 0.3**	3.0± 0.3**

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

(HAN260)

BAS 4

SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 4

Group Name	Administration week-day(effective)					
	46-7(3)	50-7(3)	54-7(3)	58-7(3)	62-7(3)	70-7(3)
Control	3.9 ± 0.6	3.8 ± 0.5	3.9 ± 0.4	3.8 ± 0.5	4.1 ± 0.4	4.3 ± 0.8
5000 ppm	3.3 ± 0.3**	3.3 ± 0.3**	3.3 ± 0.3**	3.3 ± 0.3**	3.5 ± 0.3**	3.7 ± 0.4**
10000 ppm	3.2 ± 0.4**	3.3 ± 0.4**	3.3 ± 0.4**	3.2 ± 0.3**	3.5 ± 0.3**	3.6 ± 0.5**
20000 ppm	3.0 ± 0.3**	2.9 ± 0.3**	3.1 ± 0.3**	3.1 ± 0.3**	3.3 ± 0.3**	3.4 ± 0.3**

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

(HAN260)

---

BAIS 4

SEX : MALE

### WATER CONSUMPTION CHANGES (SUMMARY) ALL ANIMALS

PAGE : 5

Group Name	Administration week-day(effective)						Test of Dunnett
	74-7(3)	78-7(3)	82-7(3)	86-7(3)	90-7(3)	94-7(3)	
Control	4.3 ± 0.5	4.6 ± 0.5	4.4 ± 0.7	4.4 ± 0.7	4.5 ± 1.0	4.7 ± 0.6	4.9 ± 0.8
5000 ppm	3.8 ± 0.5**	3.9 ± 0.7**	4.0 ± 0.5**	3.7 ± 0.7**	4.0 ± 0.6**	4.1 ± 0.7**	4.4 ± 0.8*
10000 ppm	3.7 ± 0.7**	3.9 ± 0.6**	3.9 ± 0.5**	3.9 ± 0.7**	3.8 ± 0.5**	4.0 ± 0.7**	4.2 ± 0.6**
20000 ppm	3.5 ± 0.3**	3.7 ± 0.3**	3.6 ± 0.4**	3.4 ± 0.6**	3.7 ± 0.3**	3.8 ± 0.6**	3.8 ± 0.5**

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

Test of Dunnett

(JIAN260)

BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[CrJ:BDF1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : MALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 6

Group Name	Administration week day(effective)	
	102-7(3)	104-7(3)
Control	4.9± 1.0	4.9± 0.8
5000 ppm	4.1± 0.8**	4.1± 0.8**
10000 ppm	4.2± 0.8**	4.1± 0.5**
20000 ppm	3.9± 0.6**	3.9± 0.8**
Significant difference : * : P ≤ 0.05    ** : P ≤ 0.01		
Test of Dunnett		
(HAN260)		
BATS 4		

TABLE E 4

WATER CONSUMPTION CHANGES: FEMALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-Li[Cr-j:BDFl]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 7

Group Name	Administration week-day(effective)				
	1-7(3)	2-7(3)	3-7(3)	4-7(3)	5-7(3)
Control	4.3± 0.4	4.1± 0.4	4.1± 0.4	4.0± 0.3	4.1± 0.4
2500 ppm	3.8± 0.6**	3.9± 0.5**	3.9± 0.4	3.9± 0.4	3.9± 0.4
5000 ppm	3.8± 0.4**	3.7± 0.3**	3.8± 0.3**	3.7± 0.4**	3.7± 0.3**
10000 ppm	3.8± 0.4**	3.7± 0.5**	3.8± 0.5**	3.6± 0.4**	3.6± 0.4**

Significant difference ;		* : P ≤ 0.05		** : P ≤ 0.01		Test of Dunnett	
(HAN260)						BATS 4	



STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[CrJ:BDNF]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

PAGE : 8

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration week-day(effective)						
	8-7(3)	9-7(3)	10-7(3)	11-7(3)	12-7(3)	13-7(3)	14-7(3)
Control	4.0± 0.4	4.0± 0.4	4.0± 0.4	3.8± 0.4	3.8± 0.4	3.9± 0.5	3.8± 0.4
2500 ppm	3.9± 0.4	3.9± 0.6*	3.8± 0.4*	3.8± 0.4	3.7± 0.6	3.7± 0.4*	3.7± 0.5
5000 ppm	3.9± 0.5	3.7± 0.6**	3.6± 0.3**	3.5± 0.4**	3.7± 0.4	3.5± 0.4**	3.6± 0.5*
10000 ppm	3.8± 0.4*	3.6± 0.4**	3.7± 0.4**	3.7± 0.4	3.6± 0.3*	3.5± 0.4**	3.4± 0.3**

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

(HAN260) BALS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-lj[Cx-j:BDNF1]  
 UNIT : g  
 REPORT TYPE : AI 104  
 SEX : FEMALE

PAGE : 9

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration week-day(effective)				
	18-7(3)	22-7(3)	26-7(3)	30-7(3)	34-7(3)
Control	4.2± 0.7	4.1± 0.7	4.0± 0.8	4.0± 0.8	4.0± 0.8
2500 ppm	3.8± 0.5**	3.7± 0.3**	3.7± 0.5	3.6± 0.4	3.6± 0.7**
5000 ppm	3.6± 0.5**	3.7± 0.4**	3.6± 0.4	3.4± 0.5**	3.6± 0.4*
10000 ppm	3.6± 0.3**	3.5± 0.4**	3.7± 0.9**	3.4± 0.5**	3.4± 0.6**

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

(HAN260)

BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDP1]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

PAGE : 10

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration week-day(effective)				
	46-7(3)	50-7(3)	54-7(3)	58-7(3)	62-7(3)
Control	3.9± 0.7	3.9± 0.5	3.8± 0.6	3.7± 0.4	3.9± 0.6
					4.1± 0.5
					4.0± 0.7
2500 ppm	3.5± 0.6**	3.4± 0.7**	3.5± 0.6*	3.5± 0.8**	3.6± 0.7**
					3.7± 0.8**
					3.7± 0.6
5000 ppm	3.4± 0.8**	3.4± 0.4**	3.4± 0.5**	3.2± 0.5**	3.5± 0.5**
					3.4± 0.5**
					3.5± 0.7**
10000 ppm	3.3± 0.5**	3.2± 0.5**	3.4± 0.4**	3.2± 0.4**	3.3± 0.5**
					3.1± 0.4**

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

(HAN260)

BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDP1]  
 UNIT : g  
 REPORT TYPE : A1 104  
 SEX : FEMALE

PAGE : 11

WATER CONSUMPTION CHANGES (SUMMARY)  
 ALL ANIMALS

Group Name	Administration week-day(effective)				
	74-7(3)	78-7(3)	82-7(3)	86-7(3)	90-7(3)
Control	4.3± 0.7	4.2± 0.8	4.1± 0.7	4.2± 0.6	4.3± 0.6
2500 ppm	3.9± 1.0**	3.8± 1.1**	3.9± 0.9	3.5± 0.8**	3.7± 0.8**
5000 ppm	3.5± 0.5**	3.5± 0.6**	3.6± 0.6**	3.5± 0.6**	3.6± 0.9**
10000 ppm	3.3± 0.6**	3.4± 0.7**	3.4± 0.5**	3.4± 0.8**	3.3± 0.9**

Significant difference ;	* : $P \leq 0.05$	** : $P \leq 0.01$	Test of Dunnett
(HAN260)			BAIS 4

WATER CONSUMPTION CHANGES (SUMMARY)  
ALL ANIMALS

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/CrLj[Crj:BDWf1]  
UNIT : g  
REPORT TYPE : A1 104  
SEX : FEMALE

PAGE : 12

Group Name	Administration week-day(effective)		Test of Dunnett
	102-7(3)	104-7(3)	
Control	4.3± 0.7	4.2± 0.8	
2500 ppm	3.9± 0.8	3.7± 1.1	
5000 ppm	3.7± 0.8**	3.7± 1.0	
10000 ppm	3.8± 0.8*	3.8± 0.8	
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01			
(HAN260)			
BATS 4			

TABLE F 1

CHEMICAL INTAKE CHANGES: MALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr.Li[Crj:BDP1]  
 UNIT : mg/kg/d a y  
 REPORT TYPE : A1 104  
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 1

Group Name	Administration (weeks)						
	1	2	3	4	5	6	7
Control	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
5000 ppm	809 ± 165	800 ± 124	767 ± 131	716 ± 134	683 ± 105	648 ± 124	660 ± 141
10000 ppm	1621 ± 322	1554 ± 328	1452 ± 224	1362 ± 325	1300 ± 218	1241 ± 179	1267 ± 282
20000 ppm	3077 ± 482	2970 ± 670	2716 ± 347	2537 ± 474	2525 ± 384	2376 ± 415	2361 ± 354

(HAN300)

BATS 4

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/Cr1.1[Crj:BDP]  
UNIT : mg/kg/d a y  
REPORT TYPE : AI 104  
SEX : MALE

PAGE : 2

Group Name	Administration (weeks)						
	8	9	10	11	12	13	14
Control	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0
5000 ppm	636± 128	590± 112	559± 116	538± 100	526± 106	505± 95	514± 97
10000 ppm	1181± 238	1100± 191	1045± 198	1007± 179	999± 158	934± 149	968± 171
20000 ppm	2227± 411	2101± 341	1982± 324	1944± 360	1897± 352	1776± 289	1898± 326

(HAN300)

BATS 4



STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDH1]  
 UNIT : mg/kg/day  
 REPORT TYPE : A1 104  
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 3

Group Name	Administration (weeks)						
	18	22	26	30	34	38	42
Control	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
5000 ppm	469 ± 86	434 ± 60	421 ± 57	401 ± 73	386 ± 57	371 ± 50	376 ± 49
10000 ppm	911 ± 198	816 ± 138	809 ± 198	764 ± 121	723 ± 117	735 ± 125	729 ± 98
20000 ppm	1703 ± 292	1565 ± 204	1576 ± 318	1481 ± 195	1449 ± 172	1421 ± 187	1424 ± 177

(JIAN300)

BATS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-Li[Crj:BDNF]  
 UNIT : mg/kg/d a y  
 REPORT TYPE : A1 104  
 SEX : MALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 4

Group Name	Administration (weeks)						
	46	50	54	58	62	66	70
Control	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
5000 ppm	361 ± 48	345 ± 46	339 ± 39	342 ± 37	360 ± 44	375 ± 50	375 ± 53
10000 ppm	707 ± 104	696 ± 103	686 ± 122	662 ± 79	709 ± 81	728 ± 97	725 ± 105
20000 ppm	1358 ± 167	1298 ± 151	1348 ± 153	1327 ± 156	1403 ± 152	1388 ± 171	1422 ± 163

(HAN300) BATS 4

PAGE : 5

## BAIS 4

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDNF1]  
UNIT : mg/kg/d a y  
REPORT TYPE : A1 104  
SEX : MALE

PAGE : 6

Group Name	Administration (weeks)	
	102	104
Control	0 ± 0	0 ± 0
5000 ppm	432 ± 111	434 ± 123
10000 ppm	872 ± 175	874 ± 173
20000 ppm	1654 ± 342	1665 ± 388

(HAN300) BAIS 4

TABLE F 2

CHEMICAL INTAKE CHANGES: FEMALE

STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDP1]

UNIT : mg/kg/d a y

REPORT TYPE : AI 104

SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
ALL ANIMALS

PAGE : 7

Group Name	Administration (weeks)						
	1	2	3	4	5	6	7
Control	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
2500 ppm	484 ± 70	487 ± 69	471 ± 37	451 ± 47	436 ± 39	441 ± 48	459 ± 73
5000 ppm	948 ± 97	917 ± 90	909 ± 83	865 ± 70	833 ± 68	815 ± 79	879 ± 87
10000 ppm	1925 ± 207	1830 ± 236	1809 ± 225	1679 ± 216	1635 ± 182	1639 ± 181	1718 ± 200

(HAN300)

BAIS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDP1]  
 UNIT : mg/kg/d a y  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 8

Group Name	Administration (weeks)									
	8	9	10	11	12	13	14			
Control	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0			
2500 ppm	419 ± 41	408 ± 70	395 ± 50	394 ± 45	387 ± 69	374 ± 56	368 ± 64			
5000 ppm	835 ± 98	785 ± 140	763 ± 75	746 ± 77	763 ± 81	713 ± 83	732 ± 105			
10000 ppm	1649 ± 173	1538 ± 187	1561 ± 193	1540 ± 187	1494 ± 162	1444 ± 194	1399 ± 155			

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1.1[Crj:BDP1]  
 UNIT : mg/kg/d a y  
 REPORT TYPE : AI 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 9

Group Name	Administration (weeks)									
	18	22	26	30	34	38	42			
Control	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0
2500 ppm	360 ± 57	341 ± 42	335 ± 60	316 ± 48	308 ± 74	300 ± 48	288 ± 57			
5000 ppm	697 ± 88	697 ± 87	672 ± 85	606 ± 93	629 ± 97	611 ± 88	610 ± 143			
10000 ppm	1386 ± 154	1311 ± 174	1332 ± 365	1183 ± 222	1191 ± 265	1135 ± 195	1121 ± 213			

(HAN300) BATS 4



STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[Crl:BDFl]  
 UNIT : mg/kg/d a y  
 REPORT TYPE : AI 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 10

Group Name	Administration (weeks)						
	46	50	54	58	62	66	70
Control	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
2500 ppm	283 ± 61	269 ± 78	271 ± 79	261 ± 67	265 ± 61	269 ± 75	267 ± 47
5000 ppm	551 ± 122	535 ± 95	532 ± 99	504 ± 89	536 ± 93	516 ± 99	534 ± 150
10000 ppm	1060 ± 210	1020 ± 213	1041 ± 192	994 ± 176	997 ± 189	1006 ± 200	936 ± 176

(HAN300)

BATS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crj.[Crj:BDF1]  
 UNIT : mg/kg/d a y  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES  
 ALL ANIMALS

(SUMMARY)

PAGE : 11

Group Name	Administration (weeks)							
	74	78	82	86	90	94	98	
Control	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0	
2500 ppm	286 ± 73	275 ± 78	276 ± 78	247 ± 53	259 ± 61	275 ± 64	288 ± 58	
5000 ppm	523 ± 104	520 ± 117	543 ± 117	524 ± 126	526 ± 151	545 ± 128	561 ± 133	
10000 ppm	1008 ± 200	1048 ± 259	1004 ± 177	1006 ± 248	978 ± 286	1046 ± 196	1049 ± 242	

(HAN300)

BALS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crj[Crj:BDFl]  
 UNIT : mg/kg/d a y  
 REPORT TYPE : A1 104  
 SEX : FEMALE

CHEMICAL INTAKE CHANGES (SUMMARY)  
 ALL ANIMALS

PAGE : 12

Group Name	Administration (weeks)	
	102	104
Control	0 ± 0	0 ± 0
2500 ppm	281 ± 64	281 ± 104
5000 ppm	548 ± 131	548 ± 152
10000 ppm	1145 ± 225	1220 ± 353

(HAN300) BAIS 4

TABLE G 1

HEMATOLOGY: MALE

STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDP1]

MEASURE TIME : 1

SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 1

Group Name	NO. of Animals	RED BLOOD CELL 10 <sup>6</sup> /μl	HEMOGLOBIN g/dl	HEMATOCRIT %	MCV fl	MCH pg	MCHC g/dl	PLATELET 10 <sup>3</sup> /μl
Control	35	9.25 ± 1.98	13.5 ± 2.7	42.2 ± 7.2	46.4 ± 4.9	14.6 ± 0.8	31.7 ± 1.8	1653 ± 373
5000 ppm	32	9.06 ± 1.71	13.3 ± 2.4	41.6 ± 6.6	46.6 ± 3.7	14.7 ± 0.6	31.7 ± 1.7	1577 ± 416
10000 ppm	36	9.45 ± 1.03	13.8 ± 1.4	43.1 ± 3.8	45.8 ± 2.3	14.7 ± 0.8	32.0 ± 0.7	1579 ± 391
20000 ppm	39	9.56 ± 0.54	14.1 ± 0.9	43.9 ± 2.4	46.0 ± 1.1	14.8 ± 0.4	32.2 ± 0.7	1548 ± 334

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

(HCL070)

BATS 4

STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDW]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : AI

HEMATOLOGY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 2

Group Name	NO. of Animals	RETICULOCYTE %
Control	35	3.5± 3.7
5000 ppm	32	3.6± 3.9
10000 ppm	36	2.7± 1.0
20000 ppm	39	2.5± 0.9

Test of Dunnett

\*\* :  $P \leq 0.01$

\* :  $P \leq 0.05$

Significant difference ;

(HCL070)

BATS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crj[CD1] ALL ANIMALS (105W)  
 MEASURE TIME : 1  
 SEX : MALE  
 REPORT TYPE : A1  
 HEMATOLOGY (SUMMARY)  
 PAGE : 3

Group Name	No. of Animals	WBC 1 O <sup>3</sup> /μl	Differential WBC (%)		EOSINO	BASO	MONO	LYMPHO	OTHER	
			N-BAND	N-SEG						
Control	35	4.62 ± 2.54	2 ±	5	29 ± 13	1	0 ±	2	62 ± 17	1 ± 4
5000 ppm	32	4.31 ± 2.26	1 ±	3	25 ± 12	1	0 ±	2	68 ± 14	1 ± 2
10000 ppm	36	4.60 ± 2.66	1 ±	1	24 ± 10	3	0 ±	2	66 ± 11	1 ± 4
20000 ppm	39	4.07 ± 2.05	1 ±	1	28 ± 16	1	0 ±	2	65 ± 16	0 ± 1

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

(HCL070)

BATS 4

TABLE G 2

HEMATOLOGY: FEMALE



HEMATOLOGY (SUMMARY)									PAGE : 4
ALL ANIMALS (105W)									

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrLj[Crj:BDPf1]  
 MEASURE TIME : 1  
 SEX : FEMALE  
 REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
 ALL ANIMALS (105W)

PAGE : 5

Group Name	NO. of Animals	RETICULOCYTE %
Control	27	3.6 ± 2.6
2500 ppm	25	6.7 ± 10.8
5000 ppm	30	4.1 ± 4.2
10000 ppm	18	4.0 ± 3.8

Significant difference ;	* : P ≤ 0.05	** : P ≤ 0.01	Test of Dunnett
(HCL070)			BATS 4

STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/CrLj[Crj:BDP]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 6

Group Name	NO. of Animals	WBC 10 <sup>9</sup> /μl	N-BAND	Differential WBC (%)	EOSINO	BASO	MONO	LYMPHO	OTHER
Control	27	11.42 ± 36.08	1 ±	19 ± 8	3 ± 4	0 ± 0	4 ± 2	67 ± 17	7 ± 21
2500 ppm	25	22.16 ± 96.11	2 ±	28 ± 14	3 ± 4	0 ± 0	4 ± 2	56 ± 20	6 ± 19
5000 ppm	30	4.17 ± 2.97	1 ±	21 ± 10	1 ± 1	0 ± 0	4 ± 2	68 ± 13	5 ± 9
10000 ppm	18	3.46 ± 2.90	1 ±	27 ± 16	2 ± 1	0 ± 0	5 ± 2	62 ± 18	4 ± 6

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

Test of Dunnett

(HCL070)

BATS 4

TABLE H 1

BIOCHEMISTRY: MALE

STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDP1]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
ALL ANIMALS (105W)

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	35	5.0±	2.3±	0.9±	0.13±	156±	112±	46±
5000 ppm	32	5.0±	2.4±	1.0±	0.13±	175±	110±	45±
10000 ppm	36	5.4±	2.6±	0.9±	0.13±	194±	127±	45±
20000 ppm	40	5.0±	2.4±	1.0±	0.13±	190±	105±	44±

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

Test of Dunnett

(HCL074)

BATS 4

STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDPL]

MEASURE. TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 2

Group Name	No. of Animals	PHOSPHOLIPID mg/dl	AST IU/l	ALT IU/l	LDH IU/l	ALP IU/l	G-GTP IU/l	CK IU/l
Control	35	186 ± 61	174 ± 292	97 ± 169	571 ± 667	136 ± 48	1 ± 1	91 ± 115
5000 ppm	32	194 ± 72	74 ± 47	44 ± 73	424 ± 393	139 ± 131	1 ± 1	60 ± 33
10000 ppm	36	219 ± 67	98 ± 140	73 ± 132	452 ± 277	133 ± 43	1 ± 1	55 ± 23
20000 ppm	40	185 ± 40	79 ± 103	32 ± 44*	409 ± 192	135 ± 35	1 ± 1	59 ± 30

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

Test of Dunnett

(HCL074)

BATS 4

STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:BDNF]

MEASURE TIME : 1

SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 3

Group Name	NO. of Animals	UREA NITROGEN mg/dl	SODIUM mEq/l	POTASSIUM mEq/l	CHLORIDE mEq/l	CALCIUM mg/dl	INORGANIC PHOSPHORUS mg/dl
Control	35	28.6 ± 21.1	154 ± 2	4.6 ± 0.9	122 ± 5	8.7 ± 0.5	6.1 ± 0.9
5000 ppm	32	24.4 ± 9.9	153 ± 3	4.2 ± 0.3*	121 ± 4	8.7 ± 0.4	5.8 ± 0.8
10000 ppm	36	22.5 ± 3.4	153 ± 2	4.2 ± 0.3	120 ± 3	8.9 ± 0.6	5.7 ± 0.6
20000 ppm	40	22.7 ± 10.1*	153 ± 2	4.3 ± 0.3	121 ± 2	8.6 ± 0.3	5.8 ± 0.8

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

Test of Dunnett

(HCL074)

BATS 4

TABLE H 2

BIOCHEMISTRY: FEMALE



STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDP1]

MEASURE. TIME : 1

SEX : FEMALE

REPORT TYPE : AI

BIOCHEMISTRY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g/dl	ALBUMIN g/dl	A/G RATIO	T-BILIRUBIN mg/dl	GLUCOSE mg/dl	T-CHOLESTEROL mg/dl	TRIGLYCERIDE mg/dl
Control	28	5.0±	2.5±	1.0±	0.14±	134±	82±	52±
2500 ppm	25	5.2±	2.5±	1.0±	0.18±	136±	86±	37±
5000 ppm	31	4.9±	2.5±	1.0±	0.14±	138±	74±	36±
10000 ppm	19	5.1±	2.5±	1.0±	0.13±	147±	82±	38±

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

Test of Dunnett

(ICL074)

BAIS-4

STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/CrJ[CrJ:BDP1]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 5

Group Name	NO. of Animals	PHOSPHOLIPID mg/dl	AST IU/l	ALT IU/l	LDH IU/l	ALP IU/l	G-GTP IU/l	CK IU/l
Control	28	145 ±	141 ±	53 ±	467 ±	234 ±	1 ±	82 ±
2500 ppm	25	151 ±	127 ±	60 ±	719 ±	173 ±	1 ±	118 ±
5000 ppm	31	138 ±	142 ±	52 ±	602 ±	194 ±	1 ±	97 ±
10000 ppm	19	149 ±	100 ±	29 ±	573 ±	170 ±	1 ±	104 ±

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

Test of Dunnett

(HCL074)

BATS4

STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/Crj[CD1]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : AI

BIOCHEMISTRY (SUMMARY)  
ALL ANIMALS (105W)

PAGE : 6

Group Name	NO. of Animals	UREA NITROGEN mg/dl	SODIUM mEq/l	POTASSIUM mEq/l	CHLORIDE mEq/l	CALCIUM mg/dl	INORGANIC PHOSPHORUS mg/dl
Control	28	16.8 ± 5.9	152 ± 2	4.2 ± 0.4	121 ± 3	9.0 ± 0.4	6.1 ± 1.1
2500 ppm	25	20.7 ± 11.6	152 ± 2	4.3 ± 0.5	121 ± 3	9.0 ± 0.5	6.3 ± 1.5
5000 ppm	31	19.0 ± 10.0	152 ± 2	4.3 ± 0.6	121 ± 2	8.9 ± 0.4	6.3 ± 1.3
10000 ppm	19	18.0 ± 4.4	151 ± 2	4.1 ± 0.4	120 ± 3	8.8 ± 0.5	5.9 ± 1.0

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

Test of Dunnett

(HCL074)

BATS4

TABLE I 1

URINALYSIS: MALE

STUDY NO. : 0613 URINALYSIS

ANIMAL : MOUSE B6D2F1/Cr1j[Crj:EDF1]

MEASURE TIME : 1

SEX : MALE REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	pH										Protein		Glucose		Ketone body		Occult blood	
		5.0	6.0	6.5	7.0	7.5	8.0	8.5	CHI	- ± + 2+ 3+ 4+	CHI	- ± + 2+ 3+ 4+	CHI	- ± + 2+ 3+ 4+	CHI	- ± + 2+ 3+ 4+	CHI	- ± + 2+ 3+ 4+	CHI
Control	33	0	3	9	8	12	1	0		0 17 14 1 1 0		33 0 0 0 0 0 0		15 9 9 0 0 0		27 0 1 1 4			
5000 ppm	33	0	1	11	17	4	0	0		0 10 16 6 1 0		33 0 0 0 0 0 0		8 12 12 1 0 0		29 0 0 0 4			
10000 ppm	36	0	3	16	15	2	0	0	*	0 4 18 14 0 0	**	36 0 0 0 0 0 0		8 12 14 2 0 0		32 0 0 0 4			
20000 ppm	40	0	4	25	9	2	0	0	**	0 10 26 4 0 0		40 0 0 0 0 0 0		12 12 16 0 0 0		38 0 0 0 2			

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

Test of CHI SQUARE

(HCL101)

BAIS 4

URINALYSIS

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crj:BDFl]  
 MEASURE TIME : 1  
 SEX : MALE  
 REPORT TYPE : A1  
 PAGE : 2

Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+	CHI
Control	33	33 0 0 0 0	
5000 ppm	33	33 0 0 0 0	
10000 ppm	36	36 0 0 0 0	
20000 ppm	40	40 0 0 0 0	

Significant difference ; \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$   
 (HCL101) Test of CHI SQUARE  
 BAIS 4

TABLE I 2

URINALYSIS: FEMALE

STUDY NO. : 0613

ANIMAL : MOUSE B6D2F1/CrJ[Crj:BNFL]

MEASURE TIME : 1

SEX : FEMALE

REPORT TYPE : A1

## URINALYSIS

PAGE : 3

Group Name	NO. of Animals	pH										Protein		Glucose		Ketone body		Occult blood	
		5.0	6.0	6.5	7.0	7.5	8.0	8.5	CHI	-	+	-	+	-	+	-	+	-	+
Control	30	0	2	4	0	9	11	4		0	4	15	9	2	0	6	18	3	3
2500 ppm	26	0	3	6	6	5	5	1	*	0	1	7	17	1	0	1	15	6	4
5000 ppm	32	0	2	4	5	11	9	1		0	1	18	12	1	0	0	18	10	4
10000 ppm	21	0	1	2	6	10	1	1	**	0	1	10	8	2	0	2	12	4	3

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

Test of CHI SQUARE

(HCL101)

BAIS 4



# URINALYSIS

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[Cxj:BDP1]  
 MEASURE. TIME : 1  
 SEX : FEMALE REPORT TYPE : A1  
 PAGE : 4

Group Name	NO. of Animals	Urobilinogen ± + 2+ 3+ 4+	CHI
Control	30	30 0 0 0 0	
2500 ppm	26	26 0 0 0 0	
5000 ppm	32	32 0 0 0 0	
10000 ppm	21	21 0 0 0 0	

Significant difference : \* :  $P \leq 0.05$  \*\* :  $P \leq 0.01$   
 (HCL101) Test of CHI SQUARE  
 BAIS 4

TABLE K 1

ORGAN WEIGHT, ABSOLUTE: MALE

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

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/CrJ[CrJ:BDP1]  
REPORT TYPE : AI  
SEX : MALE  
UNIT: g

PAGE : 1

Group Name	No. of Animals	Body Weight	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	35	41.4± 8.0	0.011±	0.200± 0.035	0.224± 0.018	0.212± 0.069	0.648± 0.047
5000 ppm	32	44.4± 7.4	0.010±	0.223± 0.033	0.221± 0.022	0.199± 0.057	0.695± 0.175
10000 ppm	36	44.0± 5.1	0.010±	0.216± 0.037	0.221± 0.025	0.202± 0.030	0.786± 0.576
20000 ppm	40	44.0± 6.8	0.010±	0.209± 0.042	0.219± 0.019	0.216± 0.141	0.665± 0.061

Test of Dunnett

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

(HCL040)

BATS 4

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

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/Cr-lj[Cr-j:BDNF]  
REPORT TYPE : A1  
SEX : MALE  
UNIT: g

PAGE : 2

Group Name	No. of Animals	SPLEEN	LIVER	BRAIN
Control	35	0.162± 0.255	1.688± 0.721	0.452± 0.017
5000 ppm	32	0.114± 0.079	1.806± 1.050	0.455± 0.017
10000 ppm	36	0.120± 0.092	1.812± 0.562	0.454± 0.015
20000 ppm	40	0.095± 0.078	1.585± 0.279	0.452± 0.022

Test of Dunnett

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

(HCL040)

BALS 4

TABLE K 2

ORGAN WEIGHT, ABSOLUTE: FEMALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-Li[Cr-j:BDP1]  
 REPORT TYPE : AI  
 SEX : FEMALE  
 UNIT: g

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

PAGE : 3

Group Name	NO. of Animals	Body Weight	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	28	32.9± 5.9	0.014± 0.003	0.049± 0.094	0.182± 0.032	0.205± 0.057	0.470± 0.169
2500 ppm	25	30.6± 3.4	0.015± 0.003	0.041± 0.044	0.178± 0.031	0.215± 0.067	0.562± 0.269
5000 ppm	31	31.4± 4.8	0.014± 0.003	0.200± 0.659	0.176± 0.022	0.193± 0.023	0.552± 0.514
10000 ppm	19	28.9± 3.9	0.013± 0.001	0.105± 0.243	0.164± 0.014	0.198± 0.040	0.475± 0.145

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

(HCL040)

BATS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-Li[Crj:BDPL]  
 REPORT TYPE : A1  
 SEX : FEMALE  
 UNIT: g

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

PAGE : 4

Group Name	NO. of Animals	SPLEEN	LIVER	BRAIN
Control	28	0.307± 0.648	1.642± 0.607	0.473± 0.018
2500 ppm	25	0.296± 0.363	1.577± 0.406	0.481± 0.018
5000 ppm	31	0.223± 0.159	1.430± 0.200	0.470± 0.018
10000 ppm	19	0.172± 0.116	1.367± 0.254	0.472± 0.021

Test of Dunnett

\*\* : P ≤ 0.01

\* : P ≤ 0.05

Significant difference ;

(HCL040)

BATS 4

TABLE L 1

ORGAN WEIGHT, RELATIVE: MALE



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

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/CrLi[Cr-j:BDWf1]  
REPORT TYPE : A1  
SEX : MALE  
UNIT : %

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	TESTES	HEART	LUNGS	KIDNEYS
Control	35	41.4± 8.0	0.027± 0.009	0.499± 0.127	0.563± 0.128	0.535± 0.207	1.630± 0.374
5000 ppm	32	44.4± 7.4	0.024± 0.008	0.514± 0.104	0.513± 0.107	0.464± 0.181	1.638± 0.651
10000 ppm	36	44.0± 5.1	0.022± 0.005	0.495± 0.092	0.510± 0.080	0.466± 0.094	1.851± 1.554
20000 ppm	40	44.0± 6.8	0.024± 0.008	0.483± 0.101	0.508± 0.075	0.534± 0.569	1.538± 0.201

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

(HCL042)

BATS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-lj[Cr:j-BDF1]  
 REPORT TYPE : A1  
 SEX : MALE  
 UNIT : %

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

PAGE : 2

Group Name	No. of Animals	SPLEEN	LIVER	BRAIN
Control	35	0.448 ± 0.789	4.195 ± 1.960	1.138 ± 0.262
5000 ppm	32	0.270 ± 0.229	4.160 ± 2.405	1.057 ± 0.218
10000 ppm	36	0.286 ± 0.247	4.204 ± 1.523	1.047 ± 0.132
20000 ppm	40	0.214 ± 0.158	3.662 ± 0.809	1.053 ± 0.182

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

(HCL042)

BATS 4

TABLE L 2

ORGAN WEIGHT, RELATIVE: FEMALE

STUDY NO. : 0613  
 ORGAN WEIGHT:RELATIVE (SUMMARY)  
 SURVIVAL ANIMALS (105W)

ANIMAL : MOUSE B6D2F1/CrLi[Cr-j:BDP1]  
 REPORT TYPE : A1  
 SEX : FEMALE  
 UNIT: %

PAGE : 3

Group Name	NO. of Animals	Body Weight (g)	ADRENALS	OVARIES	HEART	LUNGS	KIDNEYS
Control	28	32.9± 5.9	0.044± 0.010	0.156± 0.316	0.565± 0.123	0.646± 0.227	1.465± 0.605
2500 ppm	25	30.6± 3.4	0.048± 0.012	0.136± 0.139	0.591± 0.140	0.714± 0.260	1.901± 1.133*
5000 ppm	31	31.4± 4.8	0.045± 0.011	0.662± 2.166	0.567± 0.085	0.622± 0.095	1.797± 1.713
10000 ppm	19	28.9± 3.9	0.047± 0.007	0.401± 0.994	0.572± 0.062	0.699± 0.173	1.669± 0.562*

Test of Dunnett

\* : P ≤ 0.05    \*\* : P ≤ 0.01

Significant difference ;

(HCL042)

BAS 4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j(BDF1)  
 REPORT TYPE : A1  
 SEX : FEMALE  
 UNIT : %

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

PAGE : 4

Group Name	No. of Animals	SPLEEN	LIVER	BRAIN
Control	28	0.965 ± 1.956	5.051 ± 1.810	1.481 ± 0.255
2500 ppm	25	1.001 ± 1.315	5.179 ± 1.269	1.588 ± 0.179
5000 ppm	31	0.727 ± 0.535	4.618 ± 0.762	1.525 ± 0.214
10000 ppm	19	0.609 ± 0.437	4.755 ± 0.821	1.652 ± 0.172*

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

(HCL042)

BALS 4

TABLE M 1

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

MALE: ALL ANIMALS

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

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/Crlj[Crlj-BDF1]  
REPORT TYPE : AI  
SEX : MALE

PAGE : 1

Organ	Findings	Group Name No. of Animals on Study				Control 50				5000 ppm				10000 ppm				20000 ppm			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Integumentary system/appandage}																					
skin/app	ulcer	0	1	1	0	<50>				<50>				<50>				<50>			
		( 0 )	( 2 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	necrosis	0	0	0	0					0	1	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	scab	2	1	0	0					1	2	0	0	0	1	0	0	1	0	0	0
		( 4 )	( 2 )	( 0 )	( 0 )	( 2 )	( 4 )	( 0 )	( 0 )	( 2 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
{Respiratory system}																					
nasal cavit	eosinophilic change:olfactory epithelium	16	1	0	0	<50>				23	0	1	0	18	1	0	0	15	0	0	0
		( 32 )	( 2 )	( 0 )	( 0 )	( 46 )	( 0 )	( 2 )	( 0 )	( 46 )	( 0 )	( 2 )	( 0 )	( 36 )	( 2 )	( 0 )	( 0 )	( 30 )	( 0 )	( 0 )	( 0 )
	eosinophilic change:respiratory epithelium	16	3	0	0					9	0	1	0	10	0	0	0	12	0	0	0
		( 32 )	( 6 )	( 0 )	( 0 )	( 18 )	( 0 )	( 2 )	( 0 )	( 18 )	( 0 )	( 2 )	( 0 )	( 20 )	( 0 )	( 0 )	( 0 )	( 24 )	( 0 )	( 0 )	( 0 )
	respiratory metaplasia	0	0	0	0					0	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	inflammation:foreign body	0	0	0	0					0	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
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 : b / a * 100	Significant difference ;	* : P ≤ 0.05	** : P ≤ 0.01	Test of Chi Square														

(UPT150)

BAIS4

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

STUDY NO. : 0513  
ANIMAL : MOUSE B6D2F1/Cr1j[Cx-j-BDF1]  
REPORT TYPE : AI  
SEX : MALE

PAGE : 2

Organ	Findings	Group Name No. of Animals on Study				Control 50				5000 ppm 50				10000 ppm 50				20000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																					
nasal cavit	inflammation:respiratory epithelium	1 (2)	0 (0)	0 (0)	0 (0)	<50>	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	<50>	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium	21 (42)	0 (0)	0 (0)	0 (0)	8 (16)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland	24 (48)	0 (0)	0 (0)	0 (0)	13 (26)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	19 (38)	1 (2)	0 (0)	0 (0)	19 (38)	1 (2)	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)	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
nasopharynx	eosinophilic change	1 (2)	1 (2)	0 (0)	0 (0)	<50>	1 (2)	0 (0)	1 (2)	0 (0)	1 (2)	0 (0)	0 (0)	<50>	1 (2)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
lung	hemorrhage	0 (0)	0 (0)	0 (0)	0 (0)	<50>	0 (0)	0 (0)	0 (0)	1 (2)	2 (4)	0 (0)	0 (0)	<50>	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	edema	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

(HPT150)

BAIS4



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

STUDY NO. : 0613  
ANIMAL : MOUSE B6DZF1/CrJ[Crj-BDF1]  
REPORT TYPE : A1  
SEX : MALE

PAGE : 3

Group Name No. of Animals on Study Grade	Findings	Control 50				5000 ppm 50				10000 ppm 50				20000 ppm 50			
		1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Respiratory system}																	
lung	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		<50>															
	accumulation of foamy cells	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		<50>															
	bronchiolar-alveolar cell hyperplasia	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	2 (4)	1 (2)	0 (0)
		<50>															
{Hematopoietic system}																	
bone marrow	congestion	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)
		<50>															
	increased hematopoiesis	6 (12)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	7 (14)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)
		<50>															
	myelofibrosis	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 (6)	0 (0)	0 (0)	0 (0)
		<50>															
	megakaryocyte:increased	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
		<50>															
Grade < a > b (c)	1 : Slight a : Number of animals examined at the site b : Number of animals with lesion c : b / a * 100	2 : Moderate		3 : Marked		4 : Severe											
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																	

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

(HPT150)

BAIS4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crj[Cv:BDFl]  
 REPORT TYPE : AI  
 SEX : MALE

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

PAGE : 4

Organ	Findings	Group Name No. of Animals on Study				Control				5000 ppm				10000 ppm				20000 ppm			
		50				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Hematopoietic system)																					
bone marrow	granulopoiesis: increased	0	0	0	0	<50>	<50>	<50>	<50>	0	0	0	0	1	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lymph node	lymphadenitis	0	1	0	0	<50>	<50>	<50>	<50>	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
spleen	angiectasis	0	0	0	0	<50>	<50>	<50>	<50>	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	deposit of melanin	1	0	0	0					0	0	0	0	0	0	0	0	2	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	extramedullary hematopoiesis	10	6	0	0					12	10	0	0	15	6	0	0	10	5	0	0
		(20)	(12)	(0)	(0)	(24)	(20)	(0)	(0)	(24)	(20)	(0)	(0)	(30)	(12)	(0)	(0)	(20)	(10)	(0)	(0)
	follicular hyperplasia	0	0	0	0					1	0	0	0	0	1	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)
(Circulatory system)																					
heart	mineralization	2	0	0	0	<50>	<50>	<50>	<50>	2	1	0	0	0	0	0	0	0	0	0	0
		(4)	(0)	(0)	(0)	(4)	(2)	(0)	(0)	(4)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

(HPT150)

BA154

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Cxj:HDF1]  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 5

Organ	Findings	Group Name				Control				5000 ppm				10000 ppm				20000 ppm			
		No. of Animals on Study				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Circulatory system)																					
heart	arteritis	0	0	0	0	<50>				<50>				0	0	0	0	<50>			
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
artery/aort	arteritis	0	0	0	0	<50>				<50>				0	0	0	0	<50>			
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Digestive system)																					
tooth	dysplasia	1	0	0	0	<50>				<50>				0	0	0	0	<50>			
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
tongue	arteritis	0	0	0	0	<50>				<50>				0	0	0	0	<50>			
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
salivary gl	abscess	1	0	0	0	<50>				<50>				0	0	0	0	<50>			
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
stomach	hyperplasia:forestomach	0	1	1	0	<50>				<50>				0	0	0	0	<50>			
		( 0 )	( 2 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

(UPT150)

BAIS4

STUDY NO. : 6613  
 ANIMAL : MOUSE B6D2F1/Cr1j[Cv;BDF1]  
 REPORT TYPE : AL  
 SEX : MALE

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

PAGE : 6

Organ	Findings	Group Name No. of Animals on Study				Control 50				5000 ppm 50				10000 ppm 50				20000 ppm 50			
		Grade				1 2 3 4				1 2 3 4				1 2 3 4				1 2 3 4			
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Digestive system)																					
stomach	erosion:glandular stomach	3	1	0	0	<50>	8	0	0	0	<50>	8	0	0	0	<50>	7	0	0	0	<50>
		( 6 )	( 2 )	( 0 )	( 0 )		( 16 )	( 0 )	( 0 )	( 0 )	( 0 )		( 16 )	( 0 )	( 0 )	( 0 )	( 0 )	( 14 )	( 0 )	( 0 )	( 0 )
hyperplasia:glandular stomach	17	0	0	0	<50>	16	0	0	0	<50>	19	0	0	0	<50>	13	0	0	0	<50>	
	( 34 )	( 0 )	( 0 )	( 0 )		( 32 )	( 0 )	( 0 )	( 0 )	( 0 )		( 38 )	( 0 )	( 0 )	( 0 )	( 0 )	( 26 )	( 0 )	( 0 )	( 0 )	
large intes	lymphoid hyperplasia	0	1	0	0	<50>	0	0	0	0	<50>	0	0	0	0	<50>	0	0	0	0	<50>
		( 0 )	( 2 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
liver	necrosis:focal	1	1	0	0	<50>	1	0	0	0	<50>	1	0	0	0	<50>	0	0	0	0	<50>
		( 2 )	( 2 )	( 0 )	( 0 )		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
fatty change:central	0	0	0	0	<50>	0	0	1	0	<50>	1	0	0	0	<50>	0	0	0	0	<50>	
	( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 2 )	( 0 )	( 0 )		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	
inflammatory infiltration	0	0	0	0	<50>	0	0	0	0	<50>	1	0	0	0	<50>	0	0	0	0	<50>	
	( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	
inflammatory cell nest	6	0	0	0	<50>	3	0	0	0	<50>	1	0	0	0	<50>	1	0	0	0	<50>	
	( 12 )	( 0 )	( 0 )	( 0 )		( 6 )	( 0 )	( 0 )	( 0 )	( 0 )		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	

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

(IPT150)

BAIS4

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

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/Crlj[Cxj-BDF1]  
REPORT TYPE : A1  
SEX : MALE

PAGE : 7

Organ	Findings	Group Name No. of Animals on Study				Control 50				5000 ppm 50				10000 ppm 50				20000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(Digestive system)																					
liver	clear cell focus	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
		<50>																			
	acidophilic cell focus	1	1	0	0	0	2	0	0	0	0	2	0	1	0	2	1	0	0	0	0
		( 2 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 2 )	( 0 )	( 4 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )
		<50>																			
	basophilic cell focus	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )
		<50>																			
	bile duct hyperplasia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
		<50>																			
	biliary cyst	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
		<50>																			
gall bladd	cyst	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
		<49>																			
	hyperplasia	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
		<49>																			
(Urinary system)																					
kidney	cyst	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
		<50>																			

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

(HPT150)

BA154

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crlj[Cxj-BDF1]  
 REPORT TYPE : AI  
 SEX : MALE

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

PAGE : 8

Organ	Findings	Group Name No. of Animals on Study				Control 50				5000 ppm				10000 ppm				20000 ppm			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																					
kidney	hyaline droplet	<50>				<50>				<50>				<50>				<50>			
		2	0	0	0	3	0	0	0	1	0	0	0	1	0	0	0	5	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )
	inflammatory infiltration	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	lymphocytic infiltration	<50>				<50>				<50>				<50>				<50>			
		2	1	0	0	1	0	0	0	4	0	0	0	4	0	0	0	2	0	0	0
		( 4 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
	osseous metaplasia	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	scar	<50>				<50>				<50>				<50>				<50>			
		2	1	0	0	3	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0
		( 4 )	( 2 )	( 0 )	( 0 )	( 6 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	inflammatory polyp	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hydronephrosis	<50>				<50>				<50>				<50>				<50>			
		0	0	0	1	1	0	4	0	0	0	2	0	0	2	2	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 8 )	( 0 )	( 2 )	( 0 )	( 4 )	( 0 )	( 0 )	( 4 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	mineralization:cortex	<50>				<50>				<50>				<50>				<50>			
		3	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

(UPT150)

BAIS4

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

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/CrJ[Crlj-BDF1]  
REPORT TYPE : A1  
SEX : MALE

PAGE : 9

Organ	Findings	Group Name				Control				5000 ppm				10000 ppm				20000 ppm			
		No. of Animals on Study				Grade				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Urinary system)																					
kidney	regeneration:proximal tubule	2	1	0	0	<50>				<50>				<50>				<50>			
		( 4 )	( 2 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )
urin blaad	dilatation	0	2	1	0	<50>				<50>				<50>				<50>			
		( 0 )	( 4 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 1 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	lymphocytic infiltration	0	0	0	0					1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
urethra	inflammation	0	1	0	0	<50>				<50>				<50>				<50>			
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Endocrine system)																					
pituitary	hyperplasia	0	2	0	0	<50>				<50>				<50>				<50>			
		( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	Rathke pouch	0	0	0	0					4	0	0	0	3	0	0	0	2	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Chi Square																					

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

BA154

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crlj[Cxj-BDF1]  
 REPORT TYPE : AI  
 SEX : MALE

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

PAGE : 10

Organ	Findings	Group Name No. of Animals on Study				Control 50				5000 ppm				10000 ppm				20000 ppm			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
<b>(Endocrine system)</b>																					
thyroid																					
	cyst					<50>				<50>								<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	follicular hyperplasia																				
		1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	C-cell hyperplasia																				
		2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
parathyroid																					
	cyst					<50>				<50>								<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
adrenal																					
	spindle-cell hyperplasia					<50>				<50>								<50>			
		3	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		( 6 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyperplasia:cortical cell																				
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )
<b>(Reproductive system)</b>																					
testis																					
	atrophy					<50>				<50>								<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )

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

(HPT150)

BAIS4



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

PAGE : 11

Organ	Findings	Group Name No. of Animals on Study Grade	Control 50				5000 µm 50				10000 µm 50				20000 µm 50			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
testis	xanthogranuloma		<50>				<50>				<50>				<50>			
		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
epididymis	inflammatory infiltration		<50>				<50>				<50>				<50>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
	spermatogenic granuloma		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
	xanthogranuloma		<50>				<50>				<50>				<50>			
		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
semin ves	inflammation		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
prostate	lymphocytic infiltration		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	hyperplasia		<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

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

---

(HPT150)

BAIS4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Cxj:BDF1]  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 12

Organ	Findings	Group Name				Control				5000 ppm				10000 ppm				20000 ppm			
		No. of Animals on Study				50				50				50				50			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)			
{Reproductive system}																					
prep/cli gl	cyst	0	0	1	0	<50>	2	0	0	0	<50>	1	0	0	0	<50>	0	0			
		( 0 )	( 0 )	( 2 )	( 0 )		( 4 )	( 0 )	( 0 )	( 0 )		( 2 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )			
{Nervous system}																					
brain	hemorrhage	0	0	0	0	<50>	0	0	0	0	<50>	0	0	0	0	<50>	0	0			
		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 2 )			
	mineralization	16	0	0	0		15	0	0	0		9	0	0	0		17	0			
		( 32 )	( 0 )	( 0 )	( 0 )		( 30 )	( 0 )	( 0 )	( 0 )		( 18 )	( 0 )	( 0 )	( 0 )		( 34 )	( 0 )			
	epidermal cyst	0	0	0	0		1	0	0	0		0	0	0	0		0	1			
		( 0 )	( 0 )	( 0 )	( 0 )		( 2 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 2 )			
spinal cord	hemorrhage	0	0	0	0	<50>	0	0	0	0	<50>	0	0	0	0	<50>	1	0			
		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 2 )	( 0 )			
	necrosis:focal	0	0	0	0		1	0	0	0		0	0	0	0		0	0			
		( 0 )	( 0 )	( 0 )	( 0 )		( 2 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )			
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																					
(HPT150)																					
BATS-4																					

(HPT150)

BALS4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ [CrJ: BDF1]  
 REPORT TYPE : A1  
 SEX : MALE

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

PAGE : 13

Organ	Findings	Group Name No. of Animals on Study					Control 50					5000 ppm 50					10000 ppm 50					20000 ppm 50				
		Grade					1 2 3 4					1 2 3 4					1 2 3 4					1 2 3 4				
		(% ) (% ) (% ) (% ) (% )					(% ) (% ) (% ) (% ) (% )					(% ) (% ) (% ) (% ) (% )					(% ) (% ) (% ) (% ) (% )					(% ) (% ) (% ) (% ) (% )				
(Special sense organs/appendage)																										
Harder gl	hyperplasia	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	<50>	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	
(Musculoskeletal system)																										
muscle	necrosis	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	<50>	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	
	mineralization	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	<50>	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	
(Body cavities)																										
pleura	pleuritis	0 ( 0 )	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	<50>	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	
	hemorrhage	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	<50>	0 ( 0 )	1 ( 2 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	0 ( 0 )	
retroperit																										
Grade	1 : Slight	2 : Moderate					3 : Marked					4 : Severe														
< a >	a : Number of animals examined at the site																									
b	b : Number of animals with lesion																									
( c )	c : b / a * 100																									
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																										
(HPT150)																										
BATS4																										

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

(HPT150)

BAIS4

TABLE M 4

HISTOPATHOLOGICAL FINDINGS:

NON-NEOPLASTIC LESIONS:

FEMALE: ALL ANIMALS

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crlj[Crj-BDF1]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 14

Organ	Findings	Group Name				Control				2500 ppm				5000 ppm				10000 ppm			
		No. of Animals on Study				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Integumentary system/appendage)																					
skin/app	ulcer	1	0	0	0	<50>				0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	scab	0	0	0	0					0	2	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	sebaceous hyperplasia	1	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
subcutis	hemorrhage	0	0	0	0	<50>				1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	inflammation	0	0	1	0					0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
(Respiratory system)																					
nasal cavit	exudate	0	0	0	0	<50>				0	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )

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

(HPT150)

BAIS4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj-BDF1]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 15

Organ	Findings	Control				2500 ppm				5000 ppm				10000 ppm			
		No. of Animals on Study				Grade				Grade				Grade			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																	
nasal cavity	inflammatory infiltration	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	eosinophilic change:olfactory epithelium	15 (30)	1 (2)	0 (0)	0 (0)	10 (20)	1 (2)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)	9 (18)	0 (0)	0 (0)	0 (0)
	eosinophilic change:respiratory epithelium	26 (52)	8 (16)	0 (0)	0 (0)	28 (56)	3 (6)	0 (0)	0 (0)	35 (70)	2 (4)	0 (0)	0 (0)	33 (66)	1 (2)	0 (0)	0 (0)
	inflammation:respiratory epithelium	2 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:olfactory epithelium	15 (30)	0 (0)	0 (0)	0 (0)	6 (12)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	0 (0)	0 (0)	10 (20)	0 (0)	0 (0)	0 (0)
	respiratory metaplasia:gland	22 (44)	1 (2)	0 (0)	0 (0)	22 (44)	0 (0)	0 (0)	0 (0)	18 (36)	2 (4)	0 (0)	0 (0)	21 (42)	0 (0)	0 (0)	0 (0)
	squamous cell metaplasia:respiratory epithelium	1 (2)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
nasopharynx	eosinophilic change	9 (18)	2 (4)	0 (0)	0 (0)	4 (8)	1 (2)	0 (0)	0 (0)	3 (6)	1 (2)	0 (0)	0 (0)	2 (4)	0 (0)	0 (0)	0 (0)
			<50>				<50>				<50>				<50>		

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

(HPT150)

BA154

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[CxJ-BDF1]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 16

Organ	Findings	Group Name No. of Animals on Study				Control 50				2500 ppm 50				5000 ppm 50				10000 ppm 50			
		Grade																			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Respiratory system)																					
lung	inflammatory infiltration	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )		
	lymphocytic infiltration	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )		
	bronchiolar-alveolar cell hyperplasia	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )		
	arteritis	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )		
(Hematopoietic system)																					
bone marrow	increased hematopoiesis	<50>				<50>				<50>				<50>				<50>			
		5	0	0	0	9	0	0	0	6	0	0	0	5	0	0	0	5	0	0	0
		( 10 )	( 0 )	( 0 )	( 0 )	( 18 )	( 0 )	( 0 )	( 0 )	( 12 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )
		1	0	0	0	0	1	0	0	2	0	0	0	2	0	0	0	2	0	0	0
( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	
	megakaryocyte:increased	<50>				<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )		
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																					

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

(HPT150)

BA154

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1j[Crlj-BDF1]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 17

Organ	Findings	Group Name		Control				2500 ppm				5000 ppm				10000 ppm			
		No. of Animals on Study		50				50				50				50			
		Grade		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																			
spleen																			
	fibrosis:focal			0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
				( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )
				<50>				<50>				<50>				<50>			
	extramedullary hematopoiesis			12	4	2	0	10	10	1	0	11	7	0	0	8	5	0	0
				( 24 )	( 8 )	( 4 )	( 0 )	( 20 )	( 20 )	( 2 )	( 0 )	( 22 )	( 14 )	( 0 )	( 0 )	( 16 )	( 10 )	( 0 )	( 0 )
				<50>				<50>				<50>				<50>			
	follicular hyperplasia			1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
				( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
{Circulatory system}																			
heart																			
	thrombus			0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0
				( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
				<50>				<50>				<50>				<50>			
	mineralization			1	0	0	0	1	0	0	0	0	0	0	0	5	0	0	0
				( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 10 )	( 0 )	( 0 )	( 0 )
	inflammatory cell nest			0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
				( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	myocardial fibrosis			1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
				( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																			

(HPT150)

BA154



STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-lj[Cx-j-BDF1]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 18

Organ	Findings	Group Name				Control				2500 ppm				5000 ppm				10000 ppm			
		No. of Animals on Study				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Circulatory system}																					
heart	arteritis	0	0	0	0	<50>				1	0	0	0	1	0	0	0	0	1	0	0
		( 0 )	( 0 )	( 0 )	( 0 )					( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )
artery/aort	arteritis	0	0	0	0	<50>				0	0	0	0	0	0	1	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )					( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
{Digestive system}																					
tongue	arteritis	1	0	0	0	<50>				1	0	0	0	1	0	0	0	2	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )					( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )
salivary gl	lymphocytic infiltration	1	0	0	0	<50>				0	0	0	0	1	0	0	0	1	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )					( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
stomach	ulcer-forestomach	2	0	0	0	<50>				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 )
	hyperplasia:forestomach	1	0	0	0					0	0	0	0	2	0	0	0	4	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )					( 0 )	( 0 )	( 0 )	( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 8 )	( 0 )	( 0 )	( 0 )

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

(HPT150)

BA154

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-lj[Cr-lj:BDPL]  
 REPORT TYPE : AI  
 SEX : FEMALE

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

PAGE : 19

Organ	Findings	Group Name No. of Animals on Study				Control 50				2500 ppm 50				5000 ppm 50				10000 ppm 50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																					
stomach	erosion:glandular stomach	<50>				<50>				<50>				<50>				<50>			
		5	2	0	0	1	0	0	0	7	0	0	0	2	0	0	0	2	0	0	0
		(10)	(4)	(0)	(0)	(2)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	ulcer:glandular stomach	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia:glandular stomach	<50>				<50>				<50>				<50>				<50>			
		15	0	0	0	16	0	0	0	12	0	0	0	8	0	0	0	8	0	0	0
		(30)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(16)	(0)	(0)	(0)
liver	angiectasis	<50>				<50>				<50>				<50>				<50>			
		0	1	1	0	0	0	0	0	4	0	0	0	1	0	0	0	1	0	0	0
		(0)	(2)	(2)	(0)	(0)	(0)	(0)	(0)	(8)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	necrosis:central	<50>				<50>				<50>				<50>				<50>			
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	necrosis:focal	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	<50>				<50>				<50>				<50>				<50>			
		1	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory cell nest	<50>				<50>				<50>				<50>				<50>			
		11	0	0	0	7	0	0	0	12	0	0	0	8	0	0	0	8	0	0	0
		(22)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(24)	(0)	(0)	(0)	(16)	(0)	(0)	(0)	(16)	(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

(HPT150)

BAIS4

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

STUDY NO. : 0613  
ANIMAL : MOUSE B6D2F1/CrJ[Cxj-BDF1]  
REPORT TYPE : AI  
SEX : FEMALE

PAGE : 20

Organ	Findings	Group Name				Control				2500 ppm				5000 ppm				10000 ppm			
		No. of Animals on Study				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Digestive system)																					
liver	extramedullary hematopoiesis					<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	clear cell focus																				
		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )
	acidophilic cell focus																				
		0	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	1	0	0
		( 0 )	( 4 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 6 )	( 0 )	( 0 )	( 0 )	( 2 )	( 2 )	( 0 )	( 0 )
	basophilic cell focus																				
		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
	biliary cyst																				
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )
gall bladd	hyperplasia					<49>				<48>				<50>				<50>			
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		( 2 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )	( 0 )	( 0 )
pancreas	fibrosis:focal					<50>				<50>				<50>				<50>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 0 )	( 2 )	( 0 )

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

(HPT150)

BMIS4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crj[Cxj:BDF1]  
 REPORT TYPE : AL  
 SEX : FEMALE

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

PAGE : 21

Organ	Findings	Control				2500 ppm				5000 ppm				10000 ppm				
		No. of Animals on Study				50				50				50				
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney	cyst																	
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
		<50>																
	hyaline droplet	7	0	0	0	14	0	0	0	5	0	0	0	14	0	0	0	0
		(14)	(0)	(0)	(0)	(28)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(28)	(0)	(0)	(0)	(0)
	deposit of hemosiderin	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)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	inflammatory infiltration	0	0	0	0	2	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)
	lymphocytic infiltration	4	0	0	0	3	0	0	0	3	0	0	0	2	0	0	0	0
		(8)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(6)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)
	scar	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(0)
	inflammatory polyp	0	2	0	0	2	1	0	0	1	0	0	0	0	2	0	0	0
		(0)	(4)	(0)	(0)	(4)	(2)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(4)	(0)	(0)	(0)
	hydronephrosis	0	0	2	2	1	1	2	0	0	0	2	0	1	3	1	0	0
		(0)	(0)	(4)	(4)	(2)	(2)	(4)	(0)	(0)	(0)	(4)	(0)	(2)	(6)	(2)	(0)	(0)
Grade	1 : Slight	2 : Moderate	3 : Marked	4 : Severe														
< a >	a : Number of animals examined at the site																	
b	b : Number of animals with lesion																	
( c )	c : b / a * 100																	
Significant difference : * : P ≤ 0.05 . ** : P ≤ 0.01 Test of Chi Square																		

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

(HPT150)

BAIS4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crlj[Crlj-BDF1]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 22

Organ	Findings	Group Name No. of Animals on Study				Control 50				2500 ppm				5000 ppm				10000 ppm			
		Grade				1 2 3 4				1 2 3 4				1 2 3 4				1 2 3 4			
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)		
<b>(Urinary system)</b>																					
kidney	pyelonephritis	<50>				0	0	1	0	<50>				<50>				<50>			
		(0) (0) (2) (0)				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
		0				0	0	0	0	0				0				0			
		(0) (0) (0) (0)				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
	arthritis	0				0	0	0	0	0				0				0			
		(0) (0) (0) (0)				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
		0				0	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 droplet:glomerulus	0				0	0	0	0	0				0				0			
		(0) (0) (0) (0)				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
		0				0	0	0	0	0				0				0			
		(0) (0) (0) (0)				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		
urin bladd	dilatation	<50>				0	1	1	0	<50>				<50>				<50>			
		(0) (2) (2) (0)				(0)	(2)	(2)	(0)	(0)	(2)	(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)	(0)	(0)	(0)	(0)	(0)	
	inflammatory infiltration	0				0	0	0	0	1				0				0			
		(0) (0) (0) (0)				(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
		0				0	0	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	1				0				0			
		(0) (0) (0) (0)				(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
		0				0	0	0	0	0				0				0			
		(0) (0) (0) (0)				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
<b>(Endocrine system)</b>																					
pituitary	angiectasis	<50>				0	0	0	0	<50>				<50>				<50>			
		(0) (0) (0) (0)				(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
		0				0	0	0	0	0				0				0			
		(0) (0) (0) (0)				(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Urinary system)</b>																					
<b>(Endocrine system)</b>																					
<b>(Ur</b>																					

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

(HPT150)

BA154

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Crlj[Cxj:BDFl]  
 REPORT TYPE : AI  
 SEX : FEMALE

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

PAGE : 23

Organ	Findings	Group Name		Control				2500 ppm				5000 ppm				10000 ppm			
		No. of Animals on Study		50				50				50				50			
		Grade		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
(Endocrine system)																			
pituitary	cyst			<50>															
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	hyperplasia			7	2	1	0	4	5	3	0	9	2	3	0	5	2	4	0
				(14)	(4)	(2)	(0)	(8)	(10)	(6)	(0)	(18)	(4)	(6)	(0)	(10)	(4)	(8)	(0)
	Rathke pouch			1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
				(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
thyroid	cyst			<50>															
				0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
				(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
	C-cell hyperplasia			3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
				(6)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
parathyroid	hyperplasia			<50>															
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
adrenal	degeneration			<50>															
				0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
				(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
Significant difference : * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																			

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

(UPT150)

BAIS4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Cxj-BDF1]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 24

Organ	Findings	Group Name No. of Animals on Study				Control 50				2500 ppm 50				5000 ppm 50				10000 ppm 50			
		Grade				1				1				1				1			
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	
(Endocrine system)																					
adrenal	spindle-cell hyperplasia	32	2	0	0	32	1	0	0	30	1	0	0	25	2	0	0	<50>			
		(64)	(4)	(0)	(0)	(64)	(2)	(0)	(0)	(60)	(2)	(0)	(0)	(50)	(4)	(0)	(0)				
	focal fatty change:cortex	0	3	0	0	1	1	0	0	0	1	0	0	0	0	0	0	<50>			
		(0)	(6)	(0)	(0)	(2)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
(Reproductive system)																					
ovary	angiectasis	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	<50>			
		(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
	cyst	5	0	0	0	2	0	0	0	5	0	0	0	2	3	0	0	<50>			
		(10)	(0)	(0)	(0)	(4)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(4)	(6)	(0)	(0)				
	hyperplasia	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	<50>			
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			
uterus	dilatation	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	<50>			
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)			

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

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

(HPT150)

BALIS4

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr-lj[Cr-J:BDFl]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 25

Organ	Findings	Control				2500 ppm				5000 ppm				10000 ppm							
		No. of Animals on Study				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)				
(Reproductive system)																					
uterus	thrombus	0	1	0	0	<50>	0	0	0	0	<50>	0	0	0	0	<50>	0	0			
		( 0 )	( 2 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )			
	inflammatory infiltration	0	0	0	0		1	0	0	0		0	0	0	0		0	0			
		( 0 )	( 0 )	( 0 )	( 0 )		( 2 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )			
	stromal hyperplasia	1	0	0	0		0	0	0	0		0	0	0	0		0	0			
		( 2 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )			
	cystic endometrial hyperplasia	26	0	0	0		16	1	0	0		22	1	0	0		16	1			
		( 52 )	( 0 )	( 0 )	( 0 )		( 32 )	( 2 )	( 0 )	( 0 )		( 44 )	( 2 )	( 0 )	( 0 )		( 32 )	( 2 )			
vagina	polyp	0	0	0	0	<50>	0	0	0	0	<50>	0	1	0	0	<50>	0	0			
		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 2 )	( 0 )	( 0 )		( 0 )	( 0 )			
mammary gl	cyst	0	0	0	0	<50>	1	0	0	0	<50>	0	0	0	0	<50>	0	0			
		( 0 )	( 0 )	( 0 )	( 0 )		( 2 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )			
prep/cli gl	cyst	0	0	0	0	<50>	0	0	0	0	<50>	1	0	0	0	<50>	0	0			
		( 0 )	( 0 )	( 0 )	( 0 )		( 0 )	( 0 )	( 0 )	( 0 )		( 2 )	( 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

(UPT150)

BAIS4



STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[CrJ:BDFl]  
 REPORT TYPE : A1  
 SEX : FEMALE

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

PAGE : 26

Organ	Findings	Group Name				Control				2500 ppm				5000 ppm				10000 ppm			
		No. of Animals on Study				50				50				50				50			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Nervous system}																					
brain	hemorrhage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	mineralization	5	0	0	0	7	0	0	0	5	0	0	0	10	0	0	0	7	0	0	0
		(10)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(14)	(0)	(0)	(0)	(14)	(0)	(0)	(0)
{Special sense organs/appendage}																					
eye	inflammatory infiltration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)
	cataract	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	retinal atrophy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)
	keratitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(2)	(0)
Harder gl	degeneration	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
		(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe																					
a : Number of animals examined at the site																					
b : Number of animals with lesion																					
c : b / a * 100																					
Significant difference ; * : P ≤ 0.05 ** : P ≤ 0.01 Test of Chi Square																					

(HPT150)

BALS4



TABLE P 1

NEOPLASTIC LESIONS-INCIDENCE AND  
STATISTICAL ANALYSIS: MALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	5000 ppm	10000 ppm	20000 ppm
SITE : lung				
TUMOR : bronchiolar-alveolar adenoma				
Tumor rate				
Overall rates(a)	7/50( 14.0)	4/50( 8.0)	4/50( 8.0)	3/50( 6.0)
Adjusted rates(b)	20.00	12.12	11.11	7.32
Terminal rates(c)	7/35( 20.0)	4/33( 12.1)	4/36( 11.1)	3/41( 7.3)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.9414			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.2102			
Fisher Exact test(e)		P = 0.2623	P = 0.2623	P = 0.1589
SITE : lung				
TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	4/50( 8.0)	10/50( 20.0)	7/50( 14.0)	5/50( 10.0)
Adjusted rates(b)	9.76	24.24	13.16	10.64
Terminal rates(c)	3/35( 8.6)	8/33( 24.2)	4/36( 11.1)	3/41( 7.3)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5791			
Prevalence method(d)	P = 0.6094			
Combined analysis(d)	P = 0.6373			
Cochran-Armitage test(e)	P = 0.8311			
Fisher Exact test(e)		P = 0.0739	P = 0.2623	P = 0.5000
SITE : lung				
TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	11/50( 22.0)	14/50( 28.0)	11/50( 22.0)	8/50( 16.0)
Adjusted rates(b)	28.57	36.36	23.68	17.02
Terminal rates(c)	10/35( 28.6)	12/33( 36.4)	8/36( 22.2)	6/41( 14.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5791			
Prevalence method(d)	P = 0.9016			
Combined analysis(d)	P = 0.9071			
Cochran-Armitage test(e)	P = 0.2989			
Fisher Exact test(e)		P = 0.3224	P = 0.5952	P = 0.3055

(IIT360A)

DAIS4

STUDY No. : 0613  
ANIMAL : MOUSE B6D2F1/Crj[Crj:BDFl]  
SEX : MALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	5000 ppm	10000 ppm	20000 ppm
SITE : lymph node				
TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	13/50( 26.0)	6/50( 12.0)	6/50( 12.0)	6/50( 12.0)
Adjusted rates(b)	17.14	12.12	8.33	14.63
Terminal rates(c)	6/35( 17.1)	4/33( 12.1)	3/36( 8.3)	6/41( 14.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9976			
Prevalence method(d)	P = 0.5755			
Combined analysis(d)	P = 0.9697			
Cochran-Armitage test(e)	P = 0.1056			
Fisher Exact test(e)		P = 0.0624	P = 0.0624	P = 0.0624
SITE : liver				
TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	12/50( 24.0)	7/50( 14.0)	14/50( 28.0)	7/50( 14.0)
Adjusted rates(b)	25.71	16.22	33.33	14.63
Terminal rates(c)	9/35( 25.7)	5/33( 15.2)	12/36( 33.3)	6/41( 14.6)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8050			
Prevalence method(d)	P = 0.7987			
Combined analysis(d)	P = 0.8594			
Cochran-Armitage test(e)	P = 0.4028			
Fisher Exact test(e)		P = 0.1540	P = 0.4100	P = 0.1540
SITE : liver				
TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	3/50( 6.0)	3/50( 6.0)	1/50( 2.0)	4/50( 8.0)
Adjusted rates(b)	2.86	3.03	2.78	0.0
Terminal rates(c)	1/35( 2.9)	1/33( 3.0)	1/36( 2.8)	0/41( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2212			
Prevalence method(d)	P = 0.8247			
Combined analysis(d)	P = 0.4353			
Cochran-Armitage test(e)	P = 0.7135			
Fisher Exact test(e)		P = 0.6611	P = 0.3087	P = 0.5000

(IPT360A)

BAIS4

Group Name	Control	5000 ppm	10000 ppm	20000 ppm
SITE : liver TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	1/50( 2.0)	2/50( 4.0)	3/50( 6.0)	1/50( 2.0)
Adjusted rates(b)	2.86	6.06	2.78	0.0
Terminal rates(c)	1/35( 2.9)	2/33( 6.1)	1/36( 2.8)	0/41( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1735			
Prevalence method(d)	P = 0.8679			
Combined analysis(d)	P = 0.5743			
Cochran-Armitage test(e)	P = 0.9481			
Fisher Exact test(e)	P = 0.5000		P = 0.3087	P = 0.7525
SITE : liver TUMOR : hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	6/50( 12.0)	9/50( 18.0)	6/50( 12.0)	6/50( 12.0)
Adjusted rates(b)	15.79	14.29	13.89	9.09
Terminal rates(c)	5/35( 14.3)	4/33( 12.1)	5/36( 13.9)	2/41( 4.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3664			
Prevalence method(d)	P = 0.8232			
Combined analysis(d)	P = 0.7299			
Cochran-Armitage test(e)	P = 0.7529			
Fisher Exact test(e)	P = 0.2883		P = 0.6202	P = 0.6202

(HPT360A)

BAIS4

Group Name	Control	5000 ppm	10000 ppm	20000 ppm
SITE : liver				
TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	16/50( 32.0)	16/50( 32.0)	18/50( 36.0)	13/50( 26.0)
Adjusted rates(b)	34.29	30.56	41.67	22.92
Terminal rates(c)	12/35( 34.3)	9/33( 27.3)	15/36( 41.7)	8/41( 19.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.5794			
Prevalence method(d)	P = 0.8183			
Combined analysis(d)	P = 0.8187			
Cochran-Armitage test(e)	P = 0.5201			
Fisher Exact test(e)		P = 0.5848	P = 0.4165	P = 0.3299

(HPT360A)

BAIS4

(a): Number of tumor-bearing animals/number of animals examined at the site.

(b): Kaplan-Meier estimated tumor incidence at the end of the study after adjusting for intercurrent mortality.

(c): Observed tumor incidence at terminal kill.

(d): Beneath the control incidence are the P-values associated with the trend test.

Standard method : Death analysis

Prevalence method : Incidental tumor test

Combined analysis : Death analysis + Incidental tumor test

(e): The Cochran-Armitage and Fisher exact test compare directly the overall incidence rates.

? : The conditional probabilities of the largest and smallest possible outcomes can not be estimated or this P-value is beyond the estimated P-value.

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

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

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

Group Name	Control	5000 ppm	10000 ppm	20000 ppm
SITE : ALL SITE				
TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	4/50( 8.0)	7/50( 14.0)	6/50( 12.0)	6/50( 12.0)
Adjusted rates(b)	2.86	15.15	11.11	4.88
Terminal rates(c)	1/35( 2.9)	5/33( 15.2)	4/36( 11.1)	2/41( 4.9)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3428			
Prevalence method(d)	P = 0.5921			
Combined analysis(d)	P = 0.4560			
Cochran-Armitage test(e)	P = 0.6803			
Fisher Exact test(e)		P = 0.2623	P = 0.3703	P = 0.3703

SITE : ALL SITE				
TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	13/50( 26.0)	6/50( 12.0)	6/50( 12.0)	8/50( 16.0)
Adjusted rates(b)	17.14	12.12	8.33	19.51
Terminal rates(c)	6/35( 17.1)	4/33( 12.1)	3/36( 8.3)	8/41( 19.5)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.9976			
Prevalence method(d)	P = 0.3175			
Combined analysis(d)	P = 0.9017			
Cochran-Armitage test(e)	P = 0.3182			
Fisher Exact test(e)		P = 0.0624	P = 0.0624	P = 0.1631

(HPT360A)

BAIS4



STUDY No. : 0613  
 ANIMAL : MOUSE B6D2F1/Cr1.[Cr1:BDP1]  
 SEX : MALE

NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 2

Group Name	Control	5000 ppm	10000 ppm	20000 ppm
SITE : ALL SITE				
TUMOR : hemangiosarcoma				
Tumor rate				
Overall rates(a)	3/50( 6.0)	3/50( 6.0)	4/50( 8.0)	2/50( 4.0)
Adjusted rates(b)	8.57	9.09	2.78	2.44
Terminal rates(c)	3/35( 8.6)	3/33( 9.1)	1/36( 2.8)	1/41( 2.4)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1846			
Prevalence method(d)	P = 0.9198			
Combined analysis(d)	P = 0.7177			
Cochran-Armitage test(e)	P = 0.6872			
Fisher Exact test(e)		P = 0.6611	P = 0.5000	P = 0.5000

(HPT360A)

BA1S4

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

TABLE P 2

NEOPLASTIC LESIONS-INCIDENCE AND  
STATISTICAL ANALYSIS: FEMALE

Group Name	Control	2500 ppm	5000 ppm	10000 ppm
SITE : lung				
TUMOR : bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	2/50( 4.0)	2/50( 4.0)	1/50( 2.0)	3/50( 6.0)
Adjusted rates(b)	5.26	7.69	3.23	6.90
Terminal rates(c)	1/29( 3.4)	2/26( 7.7)	1/31( 3.2)	1/20( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1155			
Prevalence method(d)	P = 0.4665			
Combined analysis(d)	P = 0.2751			
Cochran-Armitage test(e)	P = 0.6256			
Fisher Exact test(e)		P = 0.6913	P = 0.5000	P = 0.5000
SITE : lung				
TUMOR : bronchiolar-alveolar adenoma, bronchiolar-alveolar carcinoma				
Tumor rate				
Overall rates(a)	4/50( 8.0)	3/50( 6.0)	1/50( 2.0)	3/50( 6.0)
Adjusted rates(b)	10.53	8.82	3.23	6.90
Terminal rates(c)	2/29( 6.9)	2/26( 7.7)	1/31( 3.2)	1/20( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1155			
Prevalence method(d)	P = 0.7930			
Combined analysis(d)	P = 0.6173			
Cochran-Armitage test(e)	P = 0.6370			
Fisher Exact test(e)		P = 0.5000	P = 0.1811	P = 0.5000
SITE : lymph node				
TUMOR : malignant lymphoma				
Tumor rate				
Overall rates(a)	12/50( 24.0)	18/50( 36.0)	19/50( 38.0)	16/50( 32.0)
Adjusted rates(b)	20.69	30.77	32.26	20.00
Terminal rates(c)	6/29( 20.7)	8/26( 30.8)	10/31( 32.3)	4/20( 20.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0718			
Prevalence method(d)	P = 0.5195			
Combined analysis(d)	P = 0.1217			
Cochran-Armitage test(e)	P = 0.5235			
Fisher Exact test(e)		P = 0.1376	P = 0.0971	P = 0.2522

(IPT360A)

BAIS4

Group Name	Control	2500 ppm	5000 ppm	10000 ppm
SITE : liver				
TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/50( 6.0)	3/50( 6.0)	3/50( 6.0)	1/50( 2.0)
Adjusted rates(b)	8.33	11.11	9.68	2.50
Terminal rates(c)	2/29( 6.9)	2/26( 7.7)	3/31( 9.7)	0/20( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.8274			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.3236			
Fisher Exact test(e)		P = 0.6611	P = 0.6611	P = 0.3087
SITE : liver				
TUMOR : hepatocellular adenoma				
Tumor rate				
Overall rates(a)	3/50( 6.0)	1/50( 2.0)	4/50( 8.0)	1/50( 2.0)
Adjusted rates(b)	10.34	3.70	11.43	5.00
Terminal rates(c)	3/29( 10.3)	0/26( 0.0)	3/31( 9.7)	1/20( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.6815			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.5259			
Fisher Exact test(e)		P = 0.3087	P = 0.5000	P = 0.3087
SITE : liver				
TUMOR : hepatocellular adenoma, hepatocellular carcinoma				
Tumor rate				
Overall rates(a)	4/50( 8.0)	2/50( 4.0)	4/50( 8.0)	3/50( 6.0)
Adjusted rates(b)	10.34	7.41	9.68	5.88
Terminal rates(c)	3/29( 10.3)	1/26( 3.8)	3/31( 9.7)	1/20( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3485			
Prevalence method(d)	P = 0.5490			
Combined analysis(d)	P = 0.4708			
Cochran-Armitage test(e)	P = 0.8844			
Fisher Exact test(e)		P = 0.3389	P = 0.6425	P = 0.5000

(IPT360A)

DAIS4

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

Group Name	Control	2500 ppm	5000 ppm	10000 ppm
<p>SITE : pituitary gland  TUMOR : adenoma</p>				
Tumor rate				
Overall rates(a)	12/50( 24.0)	9/50( 18.0)	5/50( 10.0)	6/50( 12.0)
Adjusted rates(b)	30.56	25.71	15.15	25.00
Terminal rates(c)	8/29( 27.6)	6/26( 23.1)	4/31( 12.9)	5/20( 25.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.8917 ?			
Prevalence method(d)	P = 0.9072			
Combined analysis(d)	P = 0.9362			
Cochran-Armitage test(e)	P = 0.0900			
Fisher Exact test(e)		P = 0.3121	P = 0.0542	P = 0.0961
<p>SITE : pituitary gland  TUMOR : adenoma, adenocarcinoma</p>				
Tumor rate				
Overall rates(a)	12/50( 24.0)	9/50( 18.0)	5/50( 10.0)	7/50( 14.0)
Adjusted rates(b)	30.56	25.71	15.15	25.00
Terminal rates(c)	8/29( 27.6)	6/26( 23.1)	4/31( 12.9)	5/20( 25.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.3751			
Prevalence method(d)	P = 0.9072			
Combined analysis(d)	P = 0.8835			
Cochran-Armitage test(e)	P = 0.1662			
Fisher Exact test(e)		P = 0.3121	P = 0.0542	P = 0.1540
<p>SITE : ovary  TUMOR : cystadenoma</p>				
Tumor rate				
Overall rates(a)	0/50( 0.0)	0/50( 0.0)	3/50( 6.0)	1/50( 2.0)
Adjusted rates(b)	0.0	0.0	9.68	2.13
Terminal rates(c)	0/29( 0.0)	0/26( 0.0)	3/31( 9.7)	0/20( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1470			
Prevalence method(d)	P = 0.1470			
Combined analysis(d)	P = 0.3056			
Cochran-Armitage test(e)				
Fisher Exact test(e)		P = N.C.	P = 0.1212	P = 0.5000

(IPT360A)

BAIS4

Group Name	Control	2500 ppm	5000 ppm	10000 ppm
SITE : ovary				
TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	0/50( 0.0)	1/50( 2.0)	4/50( 8.0)	0/50( 0.0)
Adjusted rates(b)	0.0	3.85	8.57	0.0
Terminal rates(c)	0/29( 0.0)	1/26( 3.8)	2/31( 6.5)	0/20( 0.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4037			
Prevalence method(d)	P = 0.4525			
Combined analysis(d)	P = 0.4291			
Cochran-Armitage test(e)	P = 0.9390			
Fisher Exact test(e)		P = 0.5000	P = 0.0587	P = N.C.
SITE : uterus				
TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	8/50( 16.0)	14/50( 28.0)	7/50( 14.0)	14/50( 28.0)
Adjusted rates(b)	6.90	15.38	6.45	15.00
Terminal rates(c)	2/29( 6.9)	4/26( 15.4)	2/31( 6.5)	3/20( 15.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.2268			
Prevalence method(d)	P = 0.1735			
Combined analysis(d)	P = 0.1331			
Cochran-Armitage test(e)	P = 0.3085			
Fisher Exact test(e)		P = 0.1135	P = 0.5000	P = 0.1135

(HPT360A)

BAL34

Group Name	Control	2500 ppm	5000 ppm	10000 ppm
SITE : Harderian gland				
TUMOR : adenoma				
Tumor rate				
Overall rates(a)	3/50( 6.0)	2/50( 4.0)	0/50( 0.0)	4/50( 8.0)
Adjusted rates(b)	8.33	7.69	0.0	10.00
Terminal rates(c)	2/29( 6.9)	2/26( 7.7)	0/31( 0.0)	2/20( 10.0)
Statistical analysis				
Peto test				
Standard method(d)	P = -----			
Prevalence method(d)	P = 0.3053			
Combined analysis(d)	P = -----			
Cochran-Armitage test(e)	P = 0.6038			
Fisher Exact test(e)		P = 0.5000	P = 0.1212	P = 0.5000

(HPT350A)

BAIS4

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

STUDY No. : 0613  
ANIMAL : MOUSE B6D2F1/CrJ[Crj:DDF1]  
SEX : FEMALE

NEOPLASTIC LESIONS-INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 3

Group Name	Control	2500 ppm	5000 ppm	10000 ppm
SITE : ALL SITE TUMOR : hemangioma				
Tumor rate				
Overall rates(a)	3/50( 6.0)	4/50( 8.0)	7/50( 14.0)	2/50( 4.0)
Adjusted rates(b)	8.33	14.81	17.14	5.00
Terminal rates(c)	2/29( 6.9)	3/26( 11.5)	5/31( 16.1)	1/20( 5.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.4037			
Prevalence method(d)	P = 0.6299			
Combined analysis(d)	P = 0.6085			
Cochran-Armitage test(e)	P = 0.7245			
Fisher Exact test(e)		P = 0.5000	P = 0.1589	P = 0.5000
SITE : ALL SITE TUMOR : histiocytic sarcoma				
Tumor rate				
Overall rates(a)	11/50( 22.0)	14/50( 28.0)	7/50( 14.0)	15/50( 30.0)
Adjusted rates(b)	17.24	15.38	6.45	15.00
Terminal rates(c)	5/29( 17.2)	4/26( 15.4)	2/31( 6.5)	3/20( 15.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.1595			
Prevalence method(d)	P = 0.5142			
Combined analysis(d)	P = 0.2043			
Cochran-Armitage test(e)	P = 0.5168			
Fisher Exact test(e)		P = 0.3224	P = 0.2178	P = 0.2472

(HPT360A)

BAIS4



STUDY No. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Cr:1:BDP1]  
 SEX : FEMALE

# NEOPLASTIC LESIONS—INCIDENCE AND STATISTICAL ANALYSIS

PAGE : 4

Group Name	Control	2500 ppm	5000 ppm	10000 ppm
	SITE : ALL SITE			
	TUMOR : malignant lymphoma			
Tumor rate				
Overall rates(a)	13/50 ( 26.0)	18/50 ( 36.0)	20/50 ( 40.0)	17/50 ( 34.0)
Adjusted rates(b)	24.14	30.77	35.48	25.00
Terminal rates(c)	7/29 ( 24.1)	8/26 ( 30.8)	11/31 ( 35.5)	5/20 ( 25.0)
Statistical analysis				
Peto test				
Standard method(d)	P = 0.0718			
Prevalence method(d)	P = 0.4440			
Combined analysis(d)	P = 0.1029			
Cochran-Armitage test(e)	P = 0.4799			
Fisher Exact test(e)		P = 0.1937	P = 0.1008	P = 0.2565

(HPT360A)

BAIS4

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

TABLE R 1

CAUSE OF DEATH: MALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[Crlj-BDF1]  
 SEX : MALE

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

PAGE : 1

Group Name	Control	5000 ppm	10000 ppm	20000 ppm
Number of Dead and Moribund Animal	15	17	14	9
no microscop confirm	1	0	3	0
hepatic lesion	0	1	0	0
body cavity lesion	1	0	0	0
central nervo lesion	0	0	0	1
urinary retention	2	1	0	0
arteritis	0	1	0	0
hydronephrosis	0	1	0	0
tumor d:leukemia	7	2	3	0
tumor d:subcutis	0	1	0	1
tumor d:lung	0	1	1	0
tumor d:spleen	1	0	1	0
tumor d:liver	3	7	4	7
tumor d:urin bladd	0	0	1	0
tumor d:periph nerv	0	0	1	0
tumor d:bone	0	1	0	0
tumor d:ploura	0	1	0	0

(310120)

BAIS4

TABLE R 2

CAUSE OF DEATH: FEMALE

STUDY NO. : 0613  
 ANIMAL : MOUSE B6D2F1/CrJ[CrJ:BDF1]  
 SEX : FEMALE

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

PAGE : 2

Group Name	Control	2500 ppm	5000 ppm	10000 ppm
Number of Dead and Moribund Animal	21	24	19	30
cardiovascular les	0	1	0	0
reproductive sy les	0	0	0	1
body cavity lesion	0	0	0	1
urinary retention	2	1	0	0
arthritis	0	0	1	0
hydronephrosis	3	0	1	1
peritonitis	1	0	0	0
tumor d:leukemia	6	10	9	12
tumor d:subcutis	0	1	0	0
tumor d:liver	0	0	0	1
tumor d:lung	1	0	1	2
tumor d:pituitary	1	0	0	1
tumor d:thyroid	0	0	0	1
tumor d:ovary	0	0	1	0
tumor d:uterus	6	10	6	10
tumor d:brain	1	0	0	0
tumor d:muscle	0	1	0	0

(B10120)

BAIS4

## FIGURES

- FIGURE 1 SURVIVAL ANIMAL RATE OF MALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL
- FIGURE 2 SURVIVAL ANIMAL RATE OF FEMALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL
- FIGURE 3 BODY WEIGHT CHANGES OF MALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL
- FIGURE 4 BODY WEIGHT CHANGES OF FEMALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL
- FIGURE 5 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL
- FIGURE 6 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL
- FIGURE 7 WATER CONSUMPTION CHANGES OF MALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL
- FIGURE 8 WATER CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

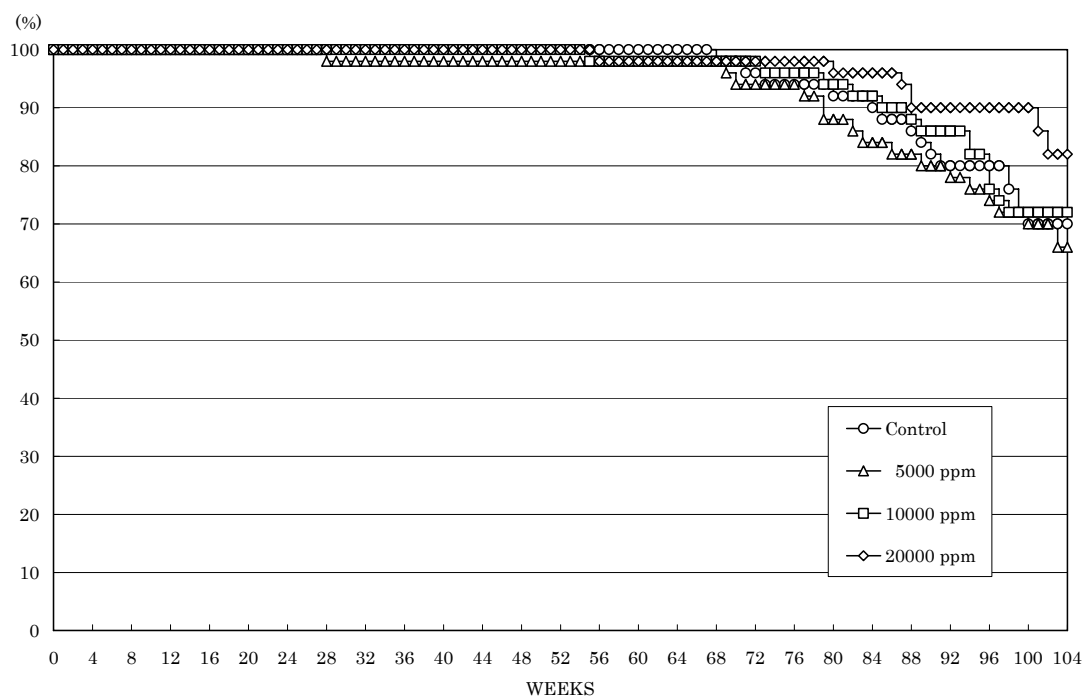


FIGURE 1 SURVIVAL ANIMAL RATE OF MALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

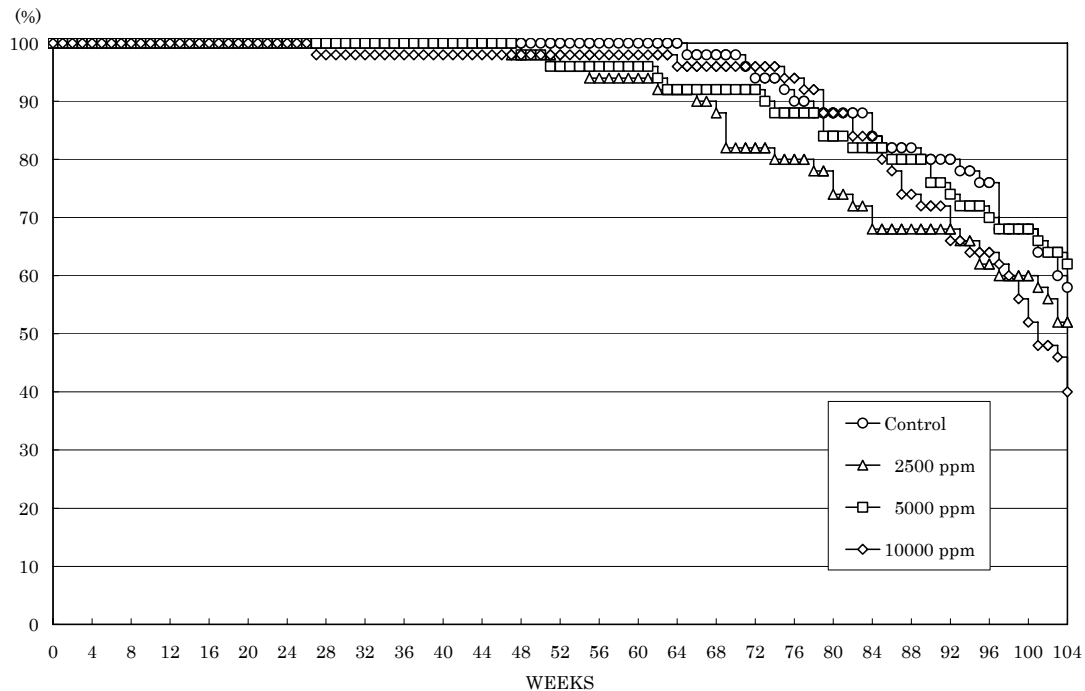


FIGURE 2 SURVIVAL ANIMAL RATE OF FEMALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

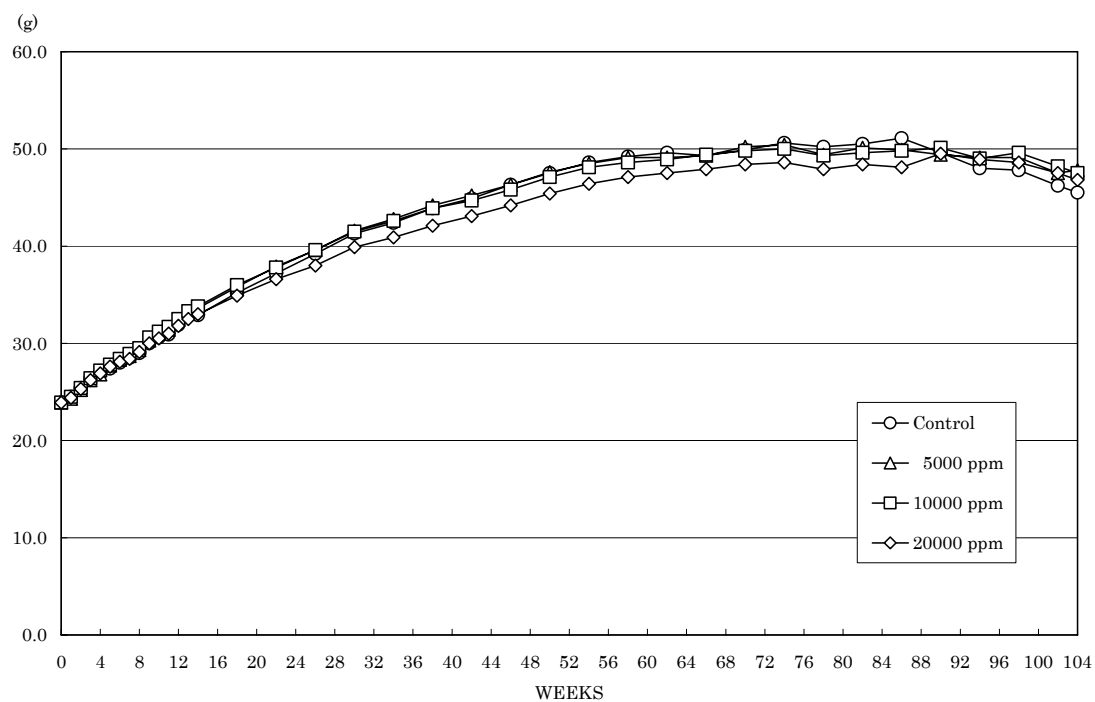


FIGURE 3 BODY WEIGHT CHANGES OF MALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

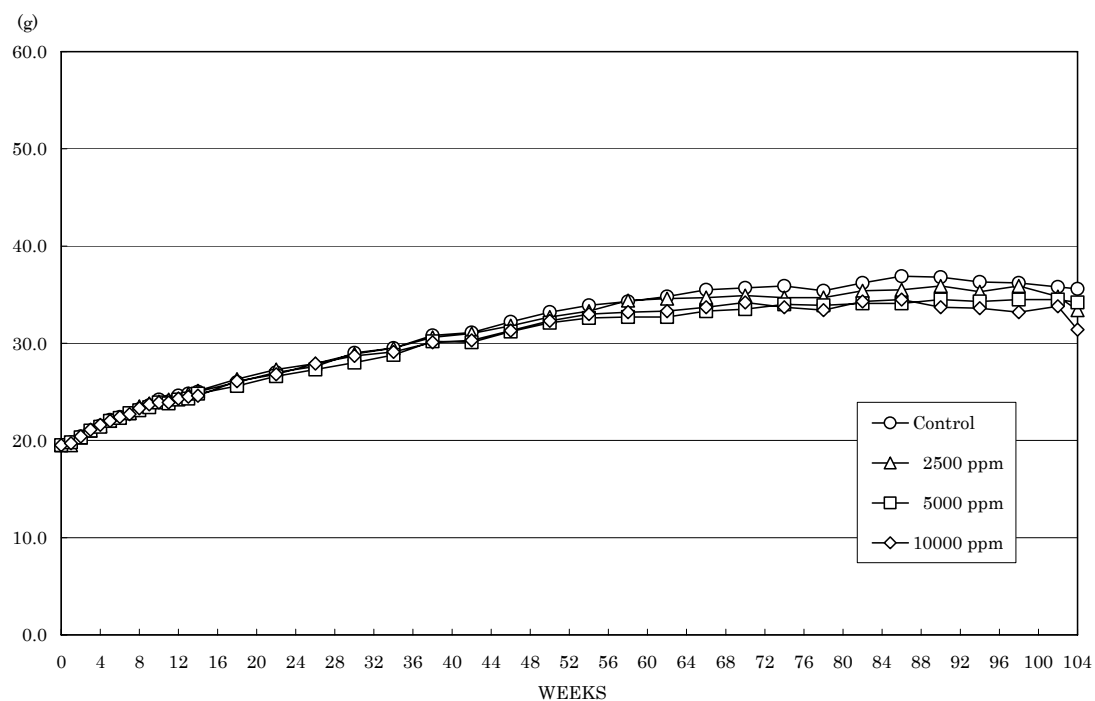


FIGURE 4 BODY WEIGHT CHANGES OF FEMALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL



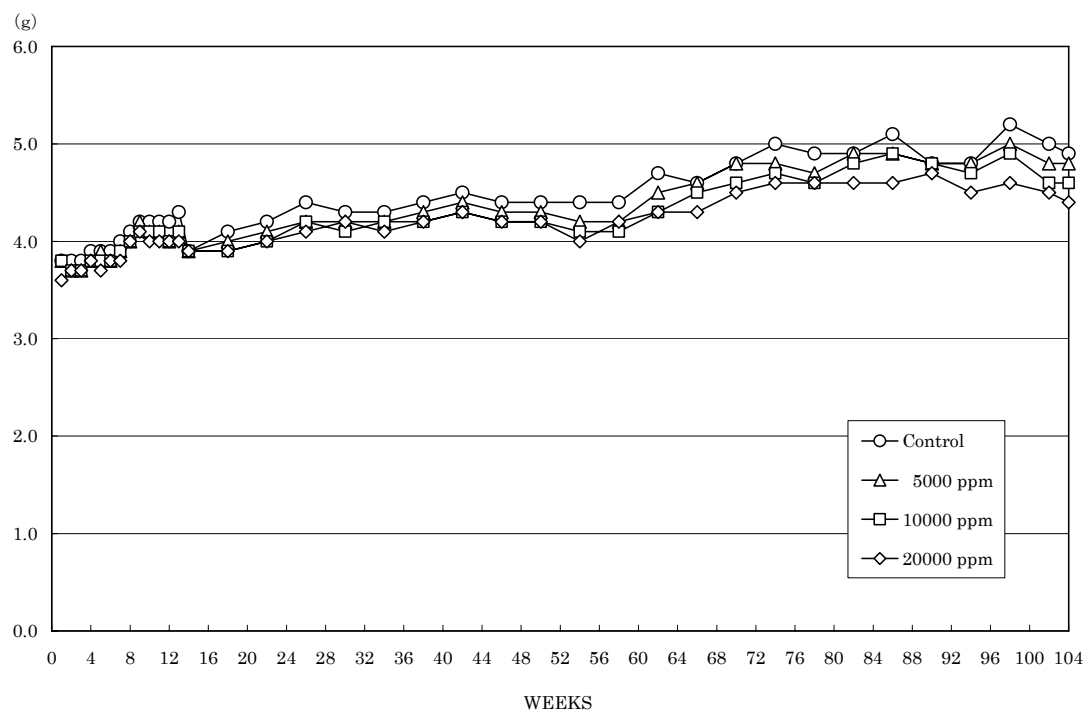


FIGURE 5 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

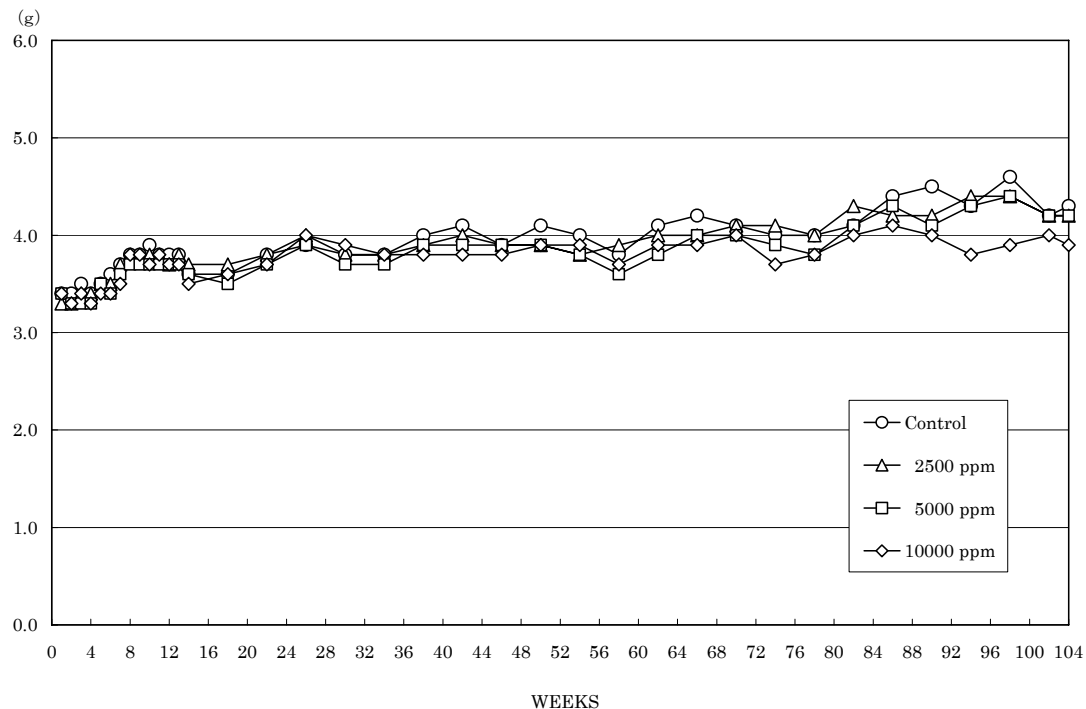


FIGURE 6 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

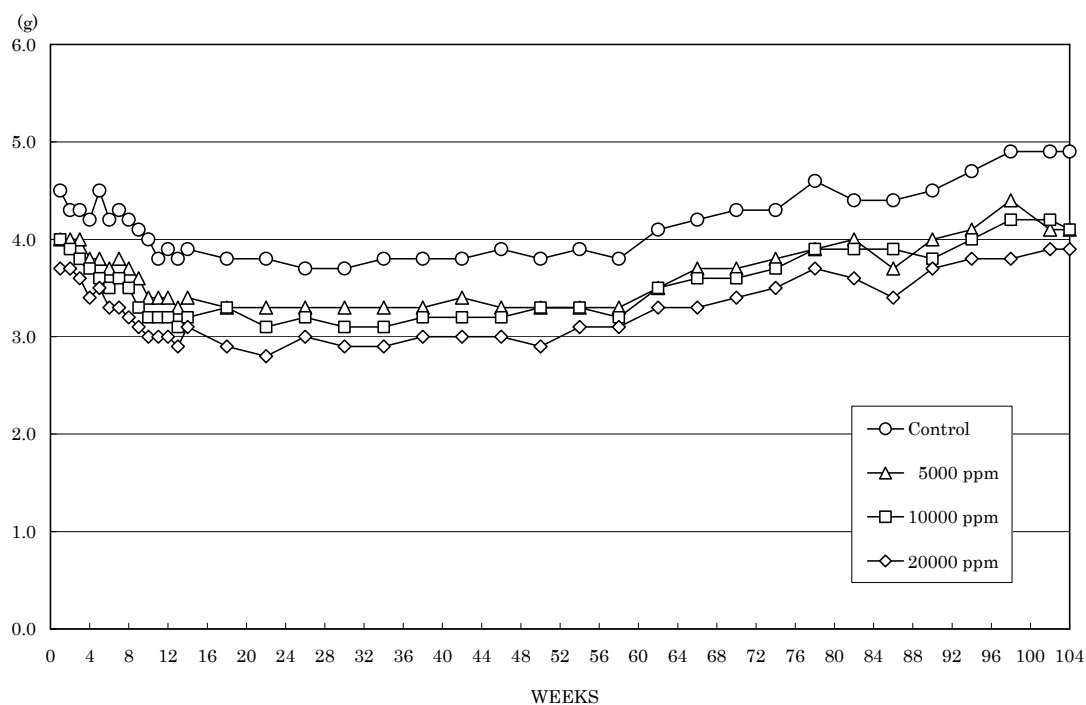


FIGURE 7 WATER CONSUMPTION CHANGES OF MALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

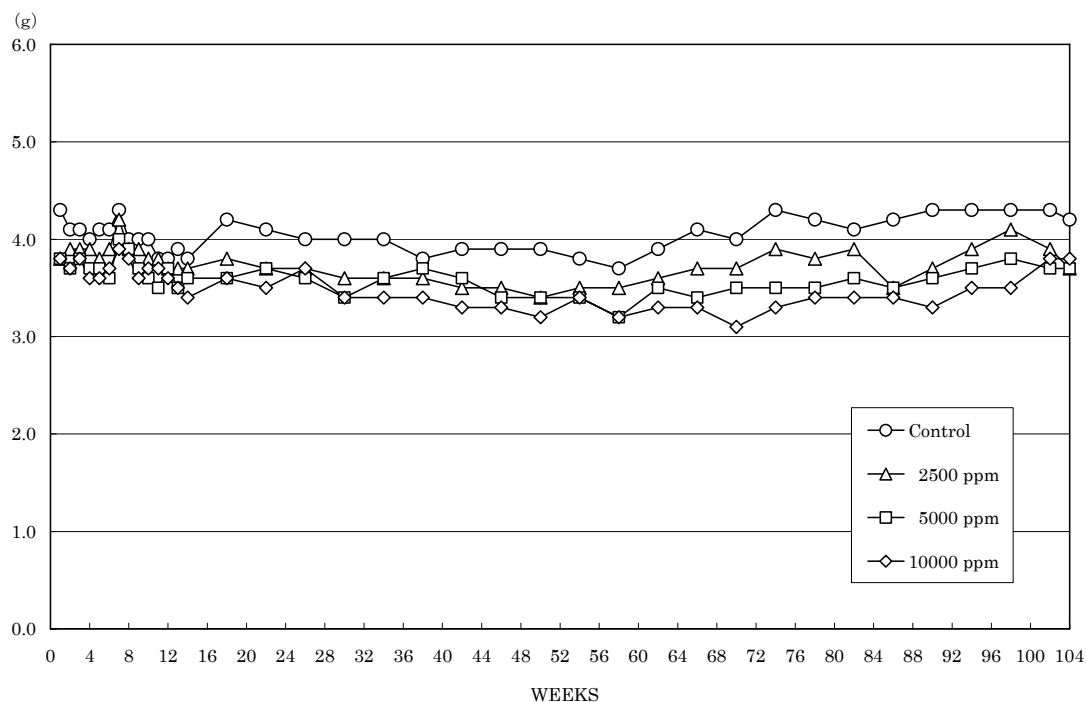


FIGURE 8 WATER CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-YEAR DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL