o－クロロニトロベンゼンのマウスを用いた
経口投与による2週間毒性試験（混餌試験）報告書

試験番号：　０４３４

TABLES

TABLES

TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

	Control		625 ppm			1250 ppm			2500 ppm			5000 ppm			10000 ppm		
Week-Day on Study	Av. Wt.	No. of Surviv. <5>	Av. Wt.	% of cont.	No. of Surviv. <5>	Av. Wt.	% of cont.	No. of Surviv. <5>	Av. Wt.	% of cont.	No. of Surviv. <5>	Av. Wt.	% of cont.	No. of Surviv. <5>	Av. Wt.	% of cont.	No. of Surviv. <5>
0-0	23.4 (5)	5 / 5	23.4 (5)	100	5 / 5	23.3 (5)	100	5 / 5	23.3 (5)	100	5 / 5	23.4 (5)	100	5 / 5	23.3 (5)	100	5 / 5
1-3	23.6 (5)	5 / 5	23.7 (5)	100	5 / 5	23.3 (5)	99	5 / 5	22.2 (5)	94	5 / 5	19.7 (5)	83	5 / 5	17.5 (5)	74	5 / 5
1-7	24.4 (5)	5 / 5	24.1 (5)	99	5 / 5	24.1 (5)	99	5 / 5	24.1 (5)	99	5 / 5	21.9 (5)	90	5 / 5	17.2 (5)	70	5 / 5
2-3	25.1 (5)	5 / 5	24.7 (5)	98	5 / 5	24.8 (5)	99	5 / 5	24.7 (5)	98	5 / 5	22.9 (5)	91	5 / 5	16.6 (4)	66	4 / 5
2-7	25.7 (5)	5 / 5	25.4 (5)	99	5 / 5	25.7 (5)	100	5 / 5	25.6 (5)	100	5 / 5	23.5 (5)	91	5 / 5	15.6 (3)	61	3 / 5

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

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

	Control		625 ppm			1250 ppm			2500 ppm			5000 ppm			10000 ppm		
Week-Day on Study	Av. Wt.	No. of Surviv. <5>	Av. Wt.	% of cont.	No. of Surviv. <5>	Av. Wt.	% of cont.	No. of Surviv. <5>	Av. Wt.	% of cont.	No. of Surviv. <5>	Av. Wt.	% of cont.	No. of Surviv. <5>	Av. Wt.	% of cont.	No. of Surviv. <5>
0-0	18.7 (5)	5 / 5	18.7 (5)	100	5 / 5	18.7 (5)	100	5 / 5	18.8 (5)	101	5 / 5	18.8 (5)	101	5 / 5	18.7 (5)	100	5 / 5
1-3	18.6 (5)	5 / 5	19.1 (5)	103	5 / 5	18.9 (5)	102	5 / 5	18.8 (5)	101	5 / 5	16.6 (5)	89	5 / 5	13.8 (5)	74	5 / 5
1-7	18.7 (5)	5 / 5	19.8 (5)	106	5 / 5	19.6 (5)	105	5 / 5	20.4 (5)	109	5 / 5	19.2 (5)	103	5 / 5	13.7 (5)	73	5 / 5
2-3	18.9 (5)	5 / 5	19.8 (5)	105	5 / 5	19.8 (5)	105	5 / 5	20.3 (5)	107	5 / 5	19.6 (5)	104	5 / 5	13.3 (3)	70	3 / 5
2-7	19.4 (5)	5 / 5	20.3 (5)	105	5 / 5	20.3 (5)	105	5 / 5	21.1 (5)	109	5 / 5	20.8 (5)	107	5 / 5	13.2 (3)	68	3 / 5

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

TABLE 3 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

Week-Day on Study	Control		625 ppm			1250 ppm			2500 ppm			5000 ppm			10000 ppm		
	Av. Fc. <5>	No. of Surviv.	Av. Fc. <5>	% of cont.	No. of Surviv.	Av. Fc. <5>	% of cont.	No. of Surviv.	Av. Fc. <5>	% of cont.	No. of Surviv.	Av. Fc. <5>	% of cont.	No. of Surviv.	Av. Fc. <5>	% of cont.	No. of Surviv.
1-3	3.6 (5)	5 / 5	3.9 (5)	108	5 / 5	3.4 (5)	94	5 / 5	2.7 (5)	75	5 / 5	1.5 (5)	42	5 / 5	0.5 (5)	14	5 / 5
1-7	4.1 (5)	5 / 5	4.1 (5)	100	5 / 5	4.3 (5)	105	5 / 5	4.7 (5)	115	5 / 5	3.9 (5)	95	5 / 5	1.9 (5)	46	5 / 5
2-3	3.7 (5)	5 / 5	3.8 (5)	103	5 / 5	3.8 (5)	103	5 / 5	3.6 (5)	97	5 / 5	3.2 (5)	86	5 / 5	0.9 (4)	24	4 / 5
2-7	4.0 (5)	5 / 5	4.3 (5)	108	5 / 5	4.3 (5)	108	5 / 5	4.0 (5)	100	5 / 5	3.6 (5)	90	5 / 5	1.5 (3)	38	3 / 5

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

TABLE 4 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

Week-Day on Study	Control		625 ppm			1250 ppm			2500 ppm			5000 ppm			10000 ppm		
	Av. Fc. <5>	No. of Surviv.	Av. Fc. <5>	% of cont.	No. of Surviv.	Av. Fc. <5>	% of cont.	No. of Surviv.	Av. Fc. <5>	% of cont.	No. of Surviv.	Av. Fc. <5>	% of cont.	No. of Surviv.	Av. Fc. <5>	% of cont.	No. of Surviv.
1-3	3.2 (5)	5 / 5	3.4 (5)	106	5 / 5	3.1 (5)	97	5 / 5	2.8 (5)	88	5 / 5	1.8 (5)	56	5 / 5	0.7 (5)	22	5 / 5
1-7	3.7 (5)	5 / 5	3.7 (5)	100	5 / 5	3.8 (5)	103	5 / 5	3.9 (5)	105	5 / 5	3.6 (5)	97	5 / 5	2.3 (5)	62	5 / 5
2-3	3.3 (5)	5 / 5	3.4 (5)	103	5 / 5	3.3 (5)	100	5 / 5	3.2 (5)	97	5 / 5	2.7 (5)	82	5 / 5	1.7 (3)	52	3 / 5
2-7	3.8 (5)	5 / 5	3.8 (5)	100	5 / 5	3.8 (5)	100	5 / 5	3.5 (5)	92	5 / 5	3.3 (5)	87	5 / 5	1.6 (3)	42	3 / 5

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

TABLE 5 HEMATOLOGY OF MALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

Group Name	Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animals	5	5	5	5	5	3
Red blood cell ($10^6/\mu$ L)	10.24 ± 0.42	10.10 ± 0.48	9.63 ± 0.36	9.30 ± 0.28 *	9.54 ± 0.29	7.50 ± 0.99 **
Hematocrit (%)	48.4 ± 1.9	47.6 ± 2.2	45.2 ± 1.9	44.9 ± 2.8	49.7 ± 1.4	29.8 ± 1.6 **
WBC ($10^3/\mu$ L)	1.96 ± 0.73	1.58 ± 0.90	2.06 ± 0.47	2.24 ± 0.84	3.03 ± 1.53	7.10 ± 0.94 **
Differential WBC (%)						
N-SEG	14 ± 4	15 ± 4	10 ± 2	14 ± 3	16 ± 3	71 ± 5 **
LYMPHO	83 ± 5	80 ± 6	85 ± 3	82 ± 5	77 ± 5	18 ± 2 **

Mean ± S.D.

*) Significant difference, $p<0.05$ (Test of Dunnett)

**) Significant difference, $p<0.01$ (Test of Dunnett)

TABLE 6 HEMATOLOGY OF FEMALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

Group Name	Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animals	5	5	5	5	5	3
Red blood cell ($10^6/\mu$ L)	9.95 ± 0.26	9.88 ± 0.12	9.26 ± 0.19 **	8.67 ± 0.14 **	8.91 ± 0.22 **	5.38 ± 0.37 **
Hematocrit (%)	47.5 ± 0.9	46.8 ± 0.5	44.8 ± 1.3 **	43.8 ± 1.0 **	46.8 ± 1.7	32.8 ± 1.8 **
MCV (fL)	47.8 ± 0.7	47.4 ± 0.4	48.3 ± 0.5	50.5 ± 1.3	52.5 ± 1.0 *	61.1 ± 2.5 **

Mean ± S.D.

*) Significant difference, $p<0.05$ (Test of Dunnett)

**) Significant difference, $p<0.01$ (Test of Dunnett)

TABLE 7 BIOCHEMISTRY OF MALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

Group Name	Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animals	5	5	5	5	5	3
Total protein (g/dL)	4.8 ± 0.1	4.8 ± 0.1	5.0 ± 0.1	5.3 ± 0.1 **	5.6 ± 0.1 **	5.6 ± 0.1 **
Albumin (g/dL)	2.9 ± 0.1	2.9 ± 0.1	3.0 ± 0.1	3.2 ± 0.1 **	3.5 ± 0.1 **	3.6 ± 0.1 **
A/G ratio	1.5 ± 0.1	1.5 ± 0.1	1.6 ± 0.1	1.5 ± 0.1	1.6 ± 0.1 *	1.8 ± 0.1 **
T-Bilirubin (mg/dL)	0.15 ± 0.02	0.15 ± 0.01	0.18 ± 0.01	0.20 ± 0.01	0.33 ± 0.02 **	0.88 ± 0.33 **
Glucose (mg/dL)	322 ± 16	303 ± 27	295 ± 26	281 ± 26	233 ± 16 **	61 ± 68 **
T-Cholesterol (mg/dL)	93 ± 7	122 ± 11	160 ± 7	226 ± 23 **	340 ± 43 **	201 ± 16
Phospholipid (mg/dL)	204 ± 10	246 ± 13	292 ± 11	374 ± 31 **	519 ± 45 **	281 ± 40
GOT (IU/L)	31 ± 2	28 ± 2	29 ± 2	34 ± 8	52 ± 5	689 ± 549
GPT (IU/L)	18 ± 1	22 ± 3	27 ± 4	46 ± 18 *	94 ± 12 **	877 ± 716 **
LDH (IU/L)	185 ± 18	171 ± 12	187 ± 32	254 ± 58	423 ± 53 *	11703 ± 7593 *
γ-GTP(IU/L)	1 ± 1	1 ± 1	1 ± 0	2 ± 0	17 ± 1	12 ± 6
CPK (IU/L)	61 ± 18	72 ± 24	52 ± 12	74 ± 25	80 ± 22	941 ± 660 *
Urea Nitrogen(mg/L)	23.0 ± 4.6	24.3 ± 2.5	23.0 ± 3.1	20.1 ± 7.6	20.8 ± 1.5	45.1 ± 25.2
Potassium (mEq/L)	4.8 ± 0.6	4.8 ± 0.2	4.6 ± 0.2	4.5 ± 0.3	5.1 ± 0.6	6.0 ± 0.2 **
Chloride (mEq/L)	118 ± 1	118 ± 2	117 ± 2	115 ± 2	113 ± 1 *	116 ± 6
Calcium(mg/dL)	9.1 ± 0.1	9.2 ± 0.1	9.4 ± 0.2	9.7 ± 0.2 **	9.5 ± 0.2 **	10.1 ± 0.1 **

Mean ± S.D.

*) Significant difference, $p<0.05$ (Test of Dunnett)

**) Significant difference, $p<0.01$ (Test of Dunnett)

TABLE 8 BIOCHEMISTRY OF FEMALE MICES IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

Group Name	Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animals	5	5	5	5	5	3
Total protein (g/dL)	4.7 ± 0.0	4.8 ± 0.1	5.0 ± 0.3	5.1 ± 0.1	5.5 ± 0.2 **	5.8 ± 0.2 **
Albumin (g/dL)	3.0 ± 0.1	3.1 ± 0.1	3.2 ± 0.2	3.2 ± 0.1	3.6 ± 0.1 **	4.0 ± 0.4 **
A/G ratio	1.8 ± 0.1	1.9 ± 0.1	1.8 ± 0.2	1.7 ± 0.1	1.8 ± 0.2	2.3 ± 0.4 *
T-Bilirubin (mg/dL)	0.17 ± 0.01	0.17 ± 0.03	0.19 ± 0.03	0.21 ± 0.01	0.26 ± 0.04 **	0.65 ± 0.15 **
Glucose (mg/dL)	280 ± 33	261 ± 19	257 ± 17	257 ± 8	226 ± 18 **	85 ± 29 **
T-Cholesterol (mg/dL)	74 ± 5	112 ± 13	136 ± 11	204 ± 13 *	318 ± 31 **	244 ± 7 **
Phospholipid (mg/dL)	163 ± 14	218 ± 20	241 ± 17	322 ± 6 *	486 ± 56 **	345 ± 22 *
GOT (IU/L)	45 ± 8	35 ± 5	36 ± 3	38 ± 2	61 ± 19	130 ± 30
GPT (IU/L)	24 ± 8	22 ± 5	26 ± 2	42 ± 3	111 ± 45 **	116 ± 50 *
LDH (IU/L)	268 ± 50	204 ± 28	194 ± 22	250 ± 34	343 ± 118	3398 ± 305
γ-GTP(IU/L)	1 ± 1	1 ± 0	1 ± 1	1 ± 0	20 ± 3	29 ± 7 *
CPK (IU/L)	119 ± 76	52 ± 20	59 ± 20	65 ± 23	61 ± 26	262 ± 50
Urea Nitrogen(mg/L)	21.9 ± 1.8	18.2 ± 3.5	16.6 ± 1.2	17.0 ± 2.9	20.4 ± 3.2	37.9 ± 11.0
Sodium (mEq/L)	148 ± 3	148 ± 1	148 ± 1	148 ± 1	149 ± 1	152 ± 1 **
Potassium (mEq/L)	4.6 ± 0.3	4.4 ± 0.4	4.7 ± 0.4	4.2 ± 0.2	4.8 ± 0.7	5.7 ± 0.6 *
Chloride (mEq/L)	120 ± 2	119 ± 1	119 ± 2	117 ± 1 *	115 ± 1 **	115 ± 3 **
Calcium(mg/dL)	9.1 ± 0.1	9.2 ± 0.3	9.1 ± 0.3	9.5 ± 0.1 *	9.6 ± 0.3 **	9.4 ± 0.2

Mean ± S.D.

*) Significant difference, $p<0.05$ (Test of Dunnett)

**) Significant difference, $p<0.01$ (Test of Dunnett)

TABLE 9 ORGAN WEIGHTS OF MALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

Group Name	Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animals	5	5	5	5	5	3
Body weight (g)	25.5 ± 0.9	25.1 ± 1.3	25.4 ± 1.1	25.4 ± 1.1	23.3 ± 0.9 *	15.4 ± 0.7 **
Thymus (g)	0.056 ± ####	0.054 ± ####	0.056 ± ####	0.054 ± ####	0.028 ± #### **	0.007 ± #### **
Thymus (%)	0.220 ± ####	0.214 ± ####	0.219 ± ####	0.212 ± ####	0.120 ± #### **	0.043 ± #### **
Adrenals (g)	0.009 ± ####	0.008 ± ####	0.008 ± ####	0.008 ± ####	0.008 ± ####	0.009 ± ####
Adrenals (%)	0.037 ± ####	0.034 ± ####	0.031 ± ####	0.032 ± ####	0.035 ± ####	0.056 ± #### **
Testes (g)	0.197 ± ####	0.182 ± ####	0.195 ± ####	0.186 ± ####	0.182 ± ####	0.056 ± #### **
Testes (%)	0.773 ± ####	0.722 ± ####	0.770 ± ####	0.736 ± ####	0.782 ± ####	0.360 ± #### **
Heart (g)	0.142 ± ####	0.141 ± ####	0.139 ± ####	0.141 ± ####	0.130 ± ####	0.130 ± ####
Heart (%)	0.557 ± ####	0.559 ± ####	0.546 ± ####	0.557 ± ####	0.559 ± ####	0.842 ± #### **
Lungs (g)	0.155 ± ####	0.148 ± ####	0.157 ± ####	0.148 ± ####	0.149 ± ####	0.146 ± ####
Lungs (%)	0.610 ± ####	0.588 ± ####	0.620 ± ####	0.582 ± ####	0.639 ± ####	0.948 ± #### *
Kidneys (g)	0.363 ± ####	0.379 ± ####	0.402 ± ####	0.388 ± ####	0.375 ± ####	0.313 ± ####
Kidneys (%)	1.427 ± ####	1.510 ± ####	1.581 ± #### *	1.529 ± ####	1.609 ± #### *	2.031 ± #### **
Spleen (g)	0.048 ± ####	0.056 ± ####	0.072 ± ####	0.112 ± #### **	0.145 ± #### **	0.111 ± ####
Spleen (%)	0.190 ± ####	0.221 ± ####	0.282 ± #### **	0.442 ± #### **	0.623 ± #### **	0.720 ± #### **
Liver (g)	1.316 ± ####	1.563 ± #### *	1.825 ± #### **	2.229 ± #### **	2.378 ± #### **	1.512 ± ####
Liver (%)	5.180 ± ####	6.211 ± #### *	7.188 ± #### **	8.783 ± #### **	10.213 ± #### **	9.790 ± #### **
Brain (g)	0.446 ± ####	0.435 ± ####	0.438 ± ####	0.437 ± ####	0.427 ± ####	0.419 ± ####
Brain (%)	1.752 ± ####	1.733 ± ####	1.727 ± ####	1.722 ± ####	1.834 ± ####	2.715 ± #### **

Mean ± S.D.

*) Significant difference, $p<0.05$ (Test of Dunnett)

**) Significant difference, $p<0.01$ (Test of Dunnett)

TABLE 10 ORGAN WEIGHTS OF FEMALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

Group Name	Control	625 ppm	1250 ppm	2500 ppm	5000 ppm	10000 ppm
No. of examined animals	5	5	5	5	5	3
Body weight (g)	19.3 ± 0.7	20.3 ± 0.7	20.0 ± 0.6	20.8 ± 0.8 **	20.5 ± 0.7 *	13.0 ± 0.4 **
Thymus (g)	0.069 ± 0.005	0.075 ± 0.008	0.073 ± 0.007	0.073 ± 0.008	0.054 ± 0.008 **	0.008 ± 0.003 **
Thymus (%)	0.361 ± 0.032	0.372 ± 0.041	0.365 ± 0.026	0.350 ± 0.026	0.263 ± 0.037 **	0.059 ± 0.020 **
Ovaries (g)	0.027 ± 0.003	0.025 ± 0.006	0.025 ± 0.006	0.030 ± 0.007	0.027 ± 0.005	0.007 ± 0.002 **
Ovaries (%)	0.138 ± 0.014	0.124 ± 0.029	0.126 ± 0.029	0.141 ± 0.029	0.132 ± 0.027	0.051 ± 0.018 **
Heart (g)	0.112 ± 0.009	0.118 ± 0.012	0.119 ± 0.013	0.118 ± 0.013	0.114 ± 0.004	0.090 ± 0.004 *
Heart (%)	0.583 ± 0.032	0.583 ± 0.049	0.597 ± 0.066	0.568 ± 0.049	0.554 ± 0.030	0.692 ± 0.036 *
Lungs (g)	0.134 ± 0.005	0.144 ± 0.015	0.138 ± 0.009	0.138 ± 0.010	0.141 ± 0.009	0.116 ± 0.006
Lungs (%)	0.694 ± 0.024	0.712 ± 0.074	0.688 ± 0.033	0.663 ± 0.042	0.686 ± 0.045	0.893 ± 0.067 **
Kidneys (g)	0.251 ± 0.008	0.265 ± 0.015	0.271 ± 0.021	0.266 ± 0.012	0.274 ± 0.020	0.244 ± 0.007
Kidneys (%)	1.307 ± 0.072	1.306 ± 0.083	1.355 ± 0.101	1.280 ± 0.038	1.333 ± 0.073	1.879 ± 0.031 **
Spleen (g)	0.053 ± 0.004	0.067 ± 0.004	0.104 ± 0.018	0.141 ± 0.015 **	0.172 ± 0.010 **	0.133 ± 0.004 *
Spleen (%)	0.274 ± 0.014	0.329 ± 0.017 **	0.519 ± 0.086 **	0.678 ± 0.068 **	0.836 ± 0.032 **	1.028 ± 0.016 **
Liver (g)	0.925 ± 0.079	1.291 ± 0.088 **	1.394 ± 0.095 **	1.746 ± 0.122 **	2.111 ± 0.138 **	1.402 ± 0.031 **
Liver (%)	4.803 ± 0.379	6.357 ± 0.368 **	6.978 ± 0.438 **	8.382 ± 0.303 **	10.281 ± 0.359 **	10.819 ± 0.414 **
Brain (g)	0.425 ± 0.023	0.446 ± 0.011	0.431 ± 0.009	0.435 ± 0.013	0.417 ± 0.017	0.396 ± 0.016
Brain (%)	2.208 ± 0.078	2.200 ± 0.088	2.157 ± 0.073	2.088 ± 0.045	2.031 ± 0.091 *	3.055 ± 0.201 **

Mean ± S.D.

*) Significant difference, $p<0.05$ (Test of Dunnett)

**) Significant difference, $p<0.01$ (Test of Dunnett)

TABLE 11 INCIDENCES OF SELECTED LESIONS OF MALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

Group		Control	625ppm	1250ppm	2500ppm	5000ppm	10000ppm
Number of examined animals		5	5	5	5	5	5 (2)
Organ Findings	Grade of Nonneoplastic lesion						
Nasal cavity							
Atrophy: olfactory epithelium	1+	0	0	0	0	5	5 (2)
Bone marrow							
Erythropoiesis:increased	1+	0	0	0	0	0	4 (1)
Thymus							
Atrophy	3+	0	0	0	0	0	4[a] (1)[b]
Spleen							
deposit of hemosiderin	1+	0	0	3	0	0	0 (0)
	2+	0	0	0	5	5	4 (1)
Extramedullary hematopoiesis	1+	0	0	1	0	0	0 (0)
	2+	0	0	2	5	5	2 (1)
	3+	0	0	0	0	0	3 (1)
Engorgement of erythrocyte	1+	0	0	4	5	5	1 (0)
	2+	0	0	0	0	0	4 (2)
Vein							
Thrombus	1+	0	0	0	0	0	3 (1)
Tongue							
Mineralization	1+	0	0	0	0	0	1 (1)
Stomach							
Erosion:forestomach	1+	0	0	0	0	0	2 (1)
	2+	0	0	0	0	0	1 (0)
Hyperplasia:forestomach	1+	0	0	0	0	1	1 (0)
	2+	0	0	0	1	0	2 (1)
Liver							
Increase in mitosis	1+	0	0	0	5	5	0 (0)
Necrosis:central	2+	0	0	0	0	0	1 (1)
Necrosis:single cell	1+	0	0	0	0	0	4 (1)
Deposit of hemosiderin	1+	0	0	0	0	0	2 (2)
	2+	0	0	0	0	0	1 (0)
Hydropic change:central	2+	0	0	0	0	0	3 (2)
Hepatocellular hypertrophy: central	3+	0	5	5	5	5	2 (0)
Testis							
Germ cell necrosis	1+	0	0	0	0	0	2 (1)
	2+	0	0	0	0	0	3 (1)
Epididymis							
Debris of spermatic elements	1+	0	0	0	0	0	3 (1) [c]
	2+	0	0	0	0	0	1 (0)
Brain							
Hemorrhage	1+	0	0	0	0	0	1 (1)
Haderien gland							
Necrosis	1+	0	0	0	0	0	1 (1)
Muscle							
Mineralization	1+	0	0	0	0	0	3 (1)

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

( ) : Number of dead animals.

a) : Number of examined animal is 4 according to the atrophy.

b) : Number of examined animal is 1 according to the atrophy.

c) : Number of examined animal is 1 according to missing.

TABLE 12 INCIDENCES OF SELECTED LESIONS OF FEMALE MICE IN THE 2-WEEK FEED STUDY OF *o*-CHLORONITROBENZENE

Group		Control	625ppm	1250ppm	2500ppm	5000ppm	10000ppm
Number of examined animals		5	5	5	5	5	5 (2)
Organ / Findings	Grade of Nonneoplastic lesion						
Nasal cavity							
Respiratory metaplasia: gland	1+	0	0	0	1	0	1 (0)
Atrophy:	1+	0	0	0	0	3	4 (1)
olfactory epithelium	2+	0	0	0	0	0	1 (1)
Lung							
Congestion	2+	0	0	0	0	0	2 (2)
Bone marrow							
Erythropoiesis:increased	1+	0	0	0	0	5	4 (1)
Thymus							
Atrophy	3+	0	0	0	0	0	5 (2)
Spleen							
deposit of hemosiderin	1+	0	0	5	0	0	4 (2)
	2+	0	0	0	5	5	1 (0)
Extramedullary hematopoiesis	1+	0	4	0	0	0	0 (0)
	2+	0	0	5	5	5	1 (1)
	3+	0	0	0	0	0	4 (1)
Engorgement of erythrocyte	1+	0	0	5	5	5	3 (0)
	2+	0	0	0	0	0	2 (2)
Heart							
Mineralization	1+	0	0	0	0	0	4 (2)
Stomach							
Erosion:forestomach	1+	0	0	1	0	1	1 (0)
Hyperplasia:forestomach	1+	0	0	2	1	0	1 (0)
	2+	0	0	0	1	2	1 (0)
Liver							
Increase in mitosis	1+	0	0	0	3	4	0 (0)
Necrosis:central	2+	0	0	0	0	0	2 (2)
Deposit of hemosiderin	1+	0	0	0	0	0	1 (1)
	2+	0	0	0	0	0	3 (0)
Hydropic change:central	2+	0	0	0	0	0	2 (2)
Hepatocellular hypertrophy: central	1+	0	1	0	0	0	0 (0)
	2+	0	3	0	0	0	0 (0)
	3+	0	1	5	5	5	3 (0)
Kidney							
Deposit of hemosiderin	1+	0	0	0	0	0	3 (0)
Adrenal							
Extramedullary hematopoiesis	1+	0	0	0	0	0	1 (0)
Brain							
Hemorrhage	1+	0	0	0	0	0	1 (0)
Muscle							
Mineralization	1+	0	0	0	0	0	1 (0)

Grade : 1+.Slight 2+.Moderate 3+.Marked 4+.Severe
( ) : Number of dead animals.