複層カーボンナノチューブ（MWCNT）のラットを用いた
吸入による2週間毒性試験報告書

試験番号：0773

TABLES

TABLES

TABLES (CONTINUED)

TABLES (CONTINUED)

TABLE A

CONCENTRATIONS OF MWCNT IN THE INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

CONCENTRATIONS OF MWCNT IN THE INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

Group Name	Concentration(ppm) Mean ± S.D.
Control	0.00 ± 0.00
0.2 mg/m^3	0.21 ± 0.02
1 mg/m^3	1.07 ± 0.12
5 mg/m^3	5.09 ± 0.35

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : C 6
SEX : MALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks) 0	1	2	3	4	5	6
Control	10	10/10	10/10	10/10	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.2mg/m3	10	10/10	10/10	10/10	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0
1mg/m3	10	10/10	10/10	10/10	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0
5mg/m3	10	10/10	10/10	10/10	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : C 6
SEX : FEMALE

SURVIVAL ANIMAL NUMBERS

Group Name	Animals At start	Administration (Weeks) 0	1	2	3	4	5	6
Control	10	10/10	10/10	10/10	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.2mg/m3	10	10/10	10/10	10/10	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0
1mg/m3	10	10/10	10/10	10/10	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0
5mg/m3	10	10/10	10/10	10/10	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : C 6

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day 1-7	2-7	3-7	4-7	5-7	6-7
NON REMARKABLE	Control	10	10	5	5	5	5
	0.2mg/m3	10	10	5	5	5	5
	1mg/m3	10	10	5	5	5	5
	5mg/m3	10	10	5	5	5	5

TABLE C2

CLINICAL OBSERVATION : FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : C 6

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

Clinical sign	Group Name	Administration Week-day 1-7	2-7	3-7	4-7	5-7	6-7
NON REMARKABLE	Control	10	10	5	5	5	5
	0.2mg/m3	10	10	5	5	5	5
	1mg/m3	10	10	5	5	5	5
	5mg/m3	10	10	5	5	5	5

TABLE D1

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : C 6
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av. Wt.	Control No. of Surviv. < 5>	0.2mg/m3 Av. Wt.	0.2mg/m3 % of cont. < 5>	0.2mg/m3 No. of Surviv.	1mg/m3 Av. Wt.	1mg/m3 % of cont. < 5>	1mg/m3 No. of Surviv.	5mg/m3 Av. Wt.	5mg/m3 % of cont. < 5>	5mg/m3 No. of Surviv.
0-0	118 (10)	10/10	118 (10)	100	10/10	118 (10)	100	10/10	118 (10)	100	10/10
1-7	152 (10)	10/10	145 (10)	95	10/10	144 (10)	95	10/10	143 (10)	94	10/10
2-7	180 (10)	10/10	171 (10)	95	10/10	174 (10)	97	10/10	168 (10)	93	10/10
3-7	201 (5)	5/ 5	194 (5)	97	5/ 5	196 (5)	98	5/ 5	191 (5)	95	5/ 5
4-7	224 (5)	5/ 5	217 (5)	97	5/ 5	216 (5)	96	5/ 5	210 (5)	94	5/ 5
5-7	242 (5)	5/ 5	237 (5)	98	5/ 5	235 (5)	97	5/ 5	226 (5)	93	5/ 5
6-7	255 (5)	5/ 5	251 (5)	98	5/ 5	249 (5)	98	5/ 5	241 (5)	95	5/ 5

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

TABLE D2

BODY WEIGHT CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : C 6
SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av. Wt.	Control No. of Surviv. < 5>	0.2mg/m3 Av. Wt.	0.2mg/m3 % of cont. < 5>	0.2mg/m3 No. of Surviv.	1mg/m3 Av. Wt.	1mg/m3 % of cont. < 5>	1mg/m3 No. of Surviv.	5mg/m3 Av. Wt.	5mg/m3 % of cont. < 5>	5mg/m3 No. of Surviv.
0-0	91 (10)	10/10	91 (10)	100	10/10	91 (10)	100	10/10	91 (10)	100	10/10
1-7	110 (10)	10/10	103 (10)	94	10/10	104 (10)	95	10/10	102 (10)	93	10/10
2-7	123 (10)	10/10	116 (10)	94	10/10	116 (10)	94	10/10	116 (10)	94	10/10
3-7	133 (5)	5/ 5	127 (5)	95	5/ 5	126 (5)	95	5/ 5	128 (5)	96	5/ 5
4-7	141 (5)	5/ 5	134 (5)	95	5/ 5	137 (5)	97	5/ 5	135 (5)	96	5/ 5
5-7	148 (5)	5/ 5	141 (5)	95	5/ 5	144 (5)	97	5/ 5	142 (5)	96	5/ 5
6-7	155 (5)	5/ 5	147 (5)	95	5/ 5	149 (5)	96	5/ 5	147 (5)	95	5/ 5

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

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : C 6
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-7	2-7	3-7	4-7	5-7	6-7
Control	118± 4	152± 7	180± 9	201± 10	224± 8	242± 9	255± 8
0.2mg/m3	118± 4	145± 5*	171± 9*	194± 10	217± 10	237± 8	251± 10
1mg/m3	118± 4	144± 6**	174± 9	196± 14	216± 14	235± 13	249± 15
5mg/m3	118± 4	143± 5**	168± 6**	191± 7	210± 11	226± 14	241± 14

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

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : C 6
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-7	2-7	3-7	4-7	5-7	6-7
Control	91± 2	110± 3	123± 4	133± 6	141± 8	148± 8	155± 9
0.2mg/m3	91± 2	103± 3**	116± 5**	127± 3	134± 3	141± 4	147± 5
1mg/m3	91± 2	104± 3**	116± 4**	126± 3	137± 5	144± 6	149± 6
5mg/m3	91± 2	102± 4**	116± 5**	128± 6	135± 6	142± 7	147± 5

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

TABLE E1

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : C 6
SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av. FC.	Control No. of Surviv. <5>	0.2mg/m3 Av. FC.	0.2mg/m3 % of cont. <5>	0.2mg/m3 No. of Surviv.	1mg/m3 Av. FC.	1mg/m3 % of cont. <5>	1mg/m3 No. of Surviv.	5mg/m3 Av. FC.	5mg/m3 % of cont. <5>	5mg/m3 No. of Surviv.
1-7	14.9 (10)	10/10	14.7 (10)	99	10/10	14.7 (10)	99	10/10	14.5 (10)	97	10/10
2-7	16.7 (10)	10/10	15.5 (10)	93	10/10	16.1 (10)	96	10/10	15.7 (10)	94	10/10
3-7	16.4 (5)	5/ 5	16.0 (5)	98	5/ 5	16.7 (5)	102	5/ 5	16.6 (5)	101	5/ 5
4-7	17.3 (5)	5/ 5	16.7 (5)	97	5/ 5	17.3 (5)	100	5/ 5	17.1 (5)	99	5/ 5
5-7	17.0 (5)	5/ 5	16.9 (5)	99	5/ 5	17.5 (5)	103	5/ 5	16.5 (5)	97	5/ 5
6-7	16.3 (5)	5/ 5	16.4 (5)	101	5/ 5	17.2 (5)	106	5/ 5	16.8 (5)	103	5/ 5

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

TABLE E2

FOOD CONSUMPTION CHANGES AND SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : C 6
SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <5>	0.2mg/m3 Av.FC.	0.2mg/m3 % of cont. <5>	0.2mg/m3 No.of Surviv.	1mg/m3 Av.FC.	1mg/m3 % of cont. <5>	1mg/m3 No.of Surviv.	5mg/m3 Av.FC.	5mg/m3 % of cont. <5>	5mg/m3 No.of Surviv.
1-7	11.0 (10)	10/10	10.8 (10)	98	10/10	11.1 (10)	101	10/10	11.0 (10)	100	10/10
2-7	11.9 (10)	10/10	11.3 (10)	95	10/10	11.3 (10)	95	10/10	11.0 (10)	92	10/10
3-7	11.7 (5)	5/ 5	11.2 (5)	96	5/ 5	11.4 (5)	97	5/ 5	11.2 (5)	96	5/ 5
4-7	12.4 (5)	5/ 5	11.6 (5)	94	5/ 5	11.7 (5)	94	5/ 5	11.4 (5)	92	5/ 5
5-7	11.9 (5)	5/ 5	11.6 (5)	97	5/ 5	12.0 (5)	101	5/ 5	11.6 (5)	97	5/ 5
6-7	11.7 (5)	5/ 5	11.3 (5)	97	5/ 5	11.5 (5)	98	5/ 5	11.2 (5)	96	5/ 5

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

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : C 6
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective) 1-7(7)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)
Control	14.9± 1.2	16.7± 1.6	16.4± 1.0	17.3± 1.0	17.0± 0.9	16.3± 0.9
0.2mg/m3	14.7± 0.7	15.5± 1.1	16.0± 1.1	16.7± 1.0	16.9± 0.6	16.4± 0.8
1mg/m3	14.7± 0.8	16.1± 1.4	16.7± 1.8	17.3± 2.3	17.5± 2.4	17.2± 2.4
5mg/m3	14.5± 0.9	15.7± 1.1	16.6± 1.7	17.1± 1.7	16.5± 1.8	16.8± 1.2

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

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : C 6
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective) 1-7(7)	2-7(7)	3-7(7)	4-7(7)	5-7(7)	6-7(7)
Control	11.0± 0.4	11.9± 0.6	11.7± 0.7	12.4± 0.8	11.9± 0.8	11.7± 0.8
0.2mg/m3	10.8± 0.7	11.3± 0.8	11.2± 0.7	11.6± 1.3	11.6± 0.3	11.3± 0.3
1mg/m3	11.1± 0.6	11.3± 0.8	11.4± 1.1	11.7± 0.6	12.0± 1.1	11.5± 0.8
5mg/m3	11.0± 0.5	11.0± 0.6	11.2± 0.5	11.4± 0.7	11.6± 0.9	11.2± 0.8

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

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	5	8.30± 0.45	15.5± 0.8	44.8± 2.2	53.9± 0.7	18.7± 0.2	34.6± 0.4	953± 83
0.2mg/m3	5	8.57± 0.17	15.9± 0.2	46.4± 0.9	54.2± 0.2	18.6± 0.2	34.3± 0.3	894± 86
1mg/m3	5	8.64± 0.10	16.1± 0.2	46.9± 0.8*	54.3± 0.5	18.6± 0.2	34.3± 0.3	966± 84
5mg/m3	5	8.82± 0.17	16.3± 0.2	47.5± 0.6**	53.9± 0.8	18.5± 0.2	34.3± 0.3	923± 45

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RETICULOCYTE %
Control	5	3.3± 0.4
0.2mg/m3	5	3.0± 0.4
1mg/m3	5	3.3± 0.3
5mg/m3	5	3.1± 0.3

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$		Differential WBC (%) NEUTRO		LYMPHO		MONO		EOSINO		BASO		OTHER	
Control	5	2.71±	1.55	25±	6	72±	6	1±	0	0±	1	0±	0	1±	0
0.2mg/m3	5	3.90±	0.52	18±	4	79±	4	1±	0	1±	0	0±	0	1±	0
1mg/m3	5	3.71±	0.65	16±	5*	82±	6*	1±	0	0±	1	0±	0	1±	0
5mg/m3	5	4.35±	0.37	22±	4	75±	4	1±	0	1±	0	0±	0	1±	0

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

TABLE F2

HEMATOLOGY : FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$	HEMOGLOBIN g/dℓ	HEMATOCRIT %	MCV fℓ	MCH pg	MCHC g/dℓ	PLATELET $10^3/\mu\ell$
Control	4	8.69± 0.29	16.4± 0.5	46.3± 0.7	53.3± 1.2	18.8± 0.1	35.4± 0.6	861± 41
0.2mg/m3	4	9.03± 0.25	17.0± 0.5	48.4± 1.3	53.6± 0.8	18.9± 0.1	35.2± 0.4	843± 84
1mg/m3	5	9.06± 0.14	17.0± 0.4	48.4± 1.3*	53.4± 0.7	18.8± 0.2	35.1± 0.3	845± 111
5mg/m3	4	9.12± 0.35	17.3± 0.6	49.0± 1.2*	53.8± 1.1	19.0± 0.4	35.4± 0.4	790± 39

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	RETICULOCYTE %
Control	4	2.0± 0.3
0.2mg/m3	4	1.9± 0.1
1mg/m3	5	1.8± 0.1
5mg/m3	4	1.7± 0.2

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$	Differential WBC (%) NEUTRO	LYMPHO	MONO	EOSINO	BASO	OTHER
Control	4	2.54± 0.62	15± 3	83± 4	1± 0	1± 0	0± 0	1± 1
0.2mg/m3	4	3.77± 1.13	17± 9	81± 10	1± 0	1± 0	0± 1	1± 0
1mg/m3	5	3.05± 0.57	16± 6	82± 7	1± 0	1± 0	0± 0	1± 0
5mg/m3	4	3.46± 0.84	18± 5	80± 6	1± 0	1± 0	0± 0	1± 1

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

TABLE F3

HEMATOLOGY : MALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : MALE REPORT TYPE : A2

HEMATOLOGY (SUMMARY)
ALL ANIMALS (7W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$		HEMOGLOBIN g/dℓ		HEMATOCRIT %		MCV fℓ		MCH pg		MCHC g/dℓ		PLATELET $10^3/\mu\ell$	
Control	5	9.56±	0.27	16.3±	0.3	47.1±	1.2	49.3±	0.3	17.1±	0.6	34.7±	1.1	786±	14
0.2mg/m3	5	9.18±	0.26*	16.6±	0.3	45.7±	1.1	49.7±	0.3	18.1±	0.2**	36.4±	0.2**	792±	24
1mg/m3	5	9.19±	0.16*	16.2±	0.2	45.6±	0.7	49.6±	0.4	17.6±	0.2	35.5±	0.6	791±	16
5mg/m3	5	9.32±	0.12	16.6±	0.1	46.4±	0.7	49.8±	0.3	17.8±	0.2	35.7±	0.4	808±	33

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : MALE REPORT TYPE : A2

HEMATOLOGY (SUMMARY)
ALL ANIMALS (7W)

Group Name	NO. of Animals	RETICULOCYTE %
Control	5	1.9± 0.1
0.2mg/m3	5	2.0± 0.1
1mg/m3	5	2.1± 0.2
5mg/m3	5	2.1± 0.2

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : MALE REPORT TYPE : A2

HEMATOLOGY (SUMMARY)
ALL ANIMALS (7W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$	Differential WBC (%) NEUTRO	LYMPHO	MONO	EOSINO	BASO	OTHER
Control	5	3.77± 0.19	22± 5	75± 5	1± 0	1± 0	0± 0	1± 0
0.2mg/m3	5	4.14± 0.54	22± 3	75± 4	1± 0	1± 1	0± 0	1± 0
1mg/m3	5	4.93± 0.83*	19± 4	78± 4	1± 0	1± 0	0± 0	1± 0
5mg/m3	5	4.75± 0.78	18± 2	80± 2	1± 0	1± 0	0± 0	1± 0

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

TABLE F4

HEMATOLOGY : FEMALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : FEMALE REPORT TYPE : A2

HEMATOLOGY (SUMMARY)
ALL ANIMALS (7W)

Group Name	NO. of Animals	RED BLOOD CELL $10^6/\mu\ell$		HEMOGLOBIN g/dℓ		HEMATOCRIT %		MCV fℓ		MCH pg		MCHC g/dℓ		PLATELET $10^3/\mu\ell$	
Control	5	8.62±	0.10	16.0±	0.3	43.5±	0.6	50.5±	0.3	18.6±	0.2	36.8±	0.4	761±	42
0.2mg/m3	5	8.81±	0.44	16.3±	0.7	45.0±	2.1	51.1±	0.2*	18.5±	0.2	36.3±	0.4	738±	54
1mg/m3	5	8.54±	0.13	16.1±	0.1	43.6±	0.5	51.0±	0.4*	18.9±	0.2	37.0±	0.4	787±	34
5mg/m3	5	8.62±	0.27	16.2±	0.4	43.9±	1.5	51.0±	0.2*	18.8±	0.3	36.8±	0.5	766±	38

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : FEMALE REPORT TYPE : A2

HEMATOLOGY (SUMMARY)
ALL ANIMALS (7W)

Group Name	NO. of Animals	RETICULOCYTE %
Control	5	2.0± 0.2
0.2mg/m3	5	2.1± 0.2
1mg/m3	5	2.1± 0.3
5mg/m3	5	1.9± 0.3

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : FEMALE REPORT TYPE : A2

HEMATOLOGY (SUMMARY)
ALL ANIMALS (7W)

Group Name	NO. of Animals	WBC $10^3/\mu\ell$	Differential WBC (%) NEUTRO	LYMPHO	MONO	EOSINO	BASO	OTHER
Control	5	2.80± 0.24	20± 4	78± 4	1± 0	1± 0	0± 0	1± 1
0.2mg/m3	5	2.73± 0.16	16± 3	81± 3	1± 0	1± 0	0± 0	1± 0
1mg/m3	5	2.66± 0.43	16± 3	81± 3	1± 0	1± 0	0± 0	1± 1
5mg/m3	5	2.84± 0.37	19± 3	78± 3	1± 0	1± 0	0± 0	1± 0

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

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

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	5	5.6±	0.1	3.2±	0.0	1.3±	0.1	0.08±	0.01	166±	12	46±	6	17±	11
0.2mg/m3	5	5.7±	0.1	3.3±	0.1	1.3±	0.1	0.08±	0.01	163±	10	47±	5	19±	8
1mg/m3	5	5.8±	0.2**	3.3±	0.1	1.3±	0.0	0.08±	0.00	157±	14	47±	4	22±	10
5mg/m3	5	5.8±	0.1**	3.4±	0.1**	1.4±	0.0	0.09±	0.00	157±	12	46±	4	15±	7

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

(HCL074)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

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	5	91± 10	66± 4	30± 2	146± 41	1026± 21	1± 0	322± 99
0.2mg/m3	5	92± 8	80± 7**	34± 4	153± 25	1166± 99**	1± 0	325± 57
1mg/m3	5	90± 7	72± 6	31± 3	146± 48	1143± 46*	0± 0	330± 48
5mg/m3	5	89± 6	75± 5*	32± 2	132± 7	1123± 104	1± 1	354± 47

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	UREA NITROGEN mg／dℓ	CREATININE mg／dℓ	SODIUM mEq／ℓ	POTASSIUM mEq／ℓ	CHLORIDE mEq／ℓ	CALCIUM mg／dℓ	INORGANIC PHOSPHORUS mg／dℓ
Control	5	18.0± 1.8	0.4± 0.0	144± 1	3.1± 0.4	106± 1	10.4± 0.3	9.3± 0.9
0.2mg/m3	5	18.3± 2.3	0.5± 0.1	145± 1	2.5± 0.2**	105± 1	10.6± 0.1	9.0± 0.2
1mg/m3	5	17.2± 0.9	0.5± 0.1	145± 1	2.6± 0.1	105± 1*	10.7± 0.1	8.9± 0.4
5mg/m3	5	18.0± 0.9	0.5± 0.0	145± 1	2.6± 0.1*	105± 1**	10.6± 0.2	9.2± 0.5

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

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

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	5	5.5± 0.2	3.2± 0.1	1.5± 0.1	0.09± 0.01	133± 17	62± 7	10± 4
0.2mg/m3	5	5.7± 0.2	3.3± 0.1	1.4± 0.1*	0.09± 0.01	125± 12	67± 9	11± 4
1mg/m3	5	5.8± 0.1*	3.4± 0.1	1.5± 0.1	0.08± 0.01	123± 27	63± 7	7± 2
5mg/m3	4	5.7± 0.1	3.4± 0.1	1.4± 0.1	0.08± 0.01	120± 10	68± 6	8± 3

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

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	5	113± 11	68± 2	27± 2	169± 32	855± 64	1± 1	233± 25
0.2mg/m3	5	119± 12	80± 8**	30± 2**	215± 65	946± 48	1± 0	317± 65*
1mg/m3	5	109± 9	74± 5	30± 2*	182± 35	901± 63	1± 0	304± 46
5mg/m3	4	115± 11	79± 4*	30± 1*	215± 46	921± 52	1± 1	302± 27

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

(HCL074)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	UREA NITROGEN mg/dl	CREATININE mg/dl	SODIUM mEq/l	POTASSIUM mEq/l	CHLORIDE mEq/l	CALCIUM mg/dl	INORGANIC PHOSPHORUS mg/dl
Control	5	18.7± 1.4	0.4± 0.1	145± 1	2.9± 0.3	106± 1	10.3± 0.4	9.5± 1.4
0.2mg/m3	5	18.6± 1.2	0.5± 0.1	145± 1	2.7± 0.2	106± 2	10.6± 0.2	8.7± 0.8
1mg/m3	5	19.2± 1.6	0.5± 0.0	146± 1	2.8± 0.1	107± 1	10.6± 0.2	8.1± 0.8
5mg/m3	4	18.1± 1.7	0.5± 0.0	146± 1	2.8± 0.1	108± 1	10.4± 0.3	8.4± 0.9

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

TABLE G3

BIOCHEMISTRY : MALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : MALE REPORT TYPE : A2

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (7W)

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	5	5.8± 0.1	3.3± 0.0	1.4± 0.1	0.08± 0.01	182± 15	48± 2	32± 9
0.2mg/m3	5	6.1± 0.2**	3.4± 0.0	1.3± 0.1	0.09± 0.00	180± 4	52± 3	47± 16
1mg/m3	5	6.0± 0.1*	3.4± 0.1	1.3± 0.1	0.09± 0.01	179± 8	50± 2	40± 21
5mg/m3	5	6.1± 0.1**	3.5± 0.1**	1.3± 0.0	0.08± 0.00	186± 6	49± 3	36± 8

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : MALE REPORT TYPE : A2

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (7W)

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	5	98± 4	61± 1	32± 2	84± 20	556± 13	1± 0	179± 44
0.2mg/m3	5	106± 6	66± 7	36± 5	101± 9	608± 29*	1± 1	172± 9
1mg/m3	5	105± 4	62± 4	34± 2	88± 24	591± 22	1± 1	170± 26
5mg/m3	5	106± 5	71± 9	39± 7	129± 35*	601± 40	1± 1	214± 25

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : MALE REPORT TYPE : A2

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (7W)

Group Name	NO. of Animals	UREA NITROGEN mg/dℓ	CREATININE mg/dℓ	SODIUM mEq/ℓ	POTASSIUM mEq/ℓ	CHLORIDE mEq/ℓ	CALCIUM mg/dℓ	INORGANIC PHOSPHORUS mg/dℓ
Control	5	18.7± 0.4	0.5± 0.0	144± 1	2.8± 0.2	106± 1	10.2± 0.2	7.5± 0.3
0.2mg/m3	5	19.5± 0.8	0.5± 0.0	144± 1	2.3± 0.1**	105± 1	10.5± 0.2*	7.5± 0.4
1mg/m3	5	19.2± 1.0	0.5± 0.0	144± 0	2.3± 0.1**	105± 1	10.6± 0.2**	7.3± 0.5
5mg/m3	5	20.5± 1.7	0.5± 0.1	144± 1	2.4± 0.1**	105± 1	10.7± 0.1**	7.6± 0.3

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

TABLE G4

BIOCHEMISTRY : FEMALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : FEMALE REPORT TYPE : A2

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (7W)

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	5	5.8± 0.2	3.3± 0.1	1.4± 0.1	0.09± 0.01	132± 13	55± 4	11± 2
0.2mg/m3	5	5.9± 0.3	3.5± 0.2	1.5± 0.1	0.09± 0.01	130± 11	55± 5	8± 3
1mg/m3	5	5.9± 0.2	3.4± 0.1	1.3± 0.1	0.09± 0.01	139± 6	54± 5	9± 1
5mg/m3	5	6.0± 0.2	3.4± 0.1	1.3± 0.1	0.09± 0.01	126± 14	58± 3	9± 3

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : FEMALE REPORT TYPE : A2

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (7W)

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	5	107± 11	62± 4	29± 3	88± 17	454± 21	1± 1	134± 24
0.2mg/m3	5	109± 8	65± 6	29± 2	124± 57	476± 19	2± 1	181± 35*
1mg/m3	5	109± 9	64± 3	30± 2	103± 32	469± 37	1± 0	184± 26*
5mg/m3	5	114± 6	66± 5	33± 4	121± 35	465± 70	1± 1	174± 28

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 2
SEX : FEMALE REPORT TYPE : A2

BIOCHEMISTRY (SUMMARY)
ALL ANIMALS (7W)

Group Name	NO. of Animals	UREA NITROGEN mg/dℓ	CREATININE mg/dℓ	SODIUM mEq/ℓ	POTASSIUM mEq/ℓ	CHLORIDE mEq/ℓ	CALCIUM mg/dℓ	INORGANIC PHOSPHORUS mg/dℓ
Control	5	19.2± 1.6	0.6± 0.1	144± 1	2.8± 0.2	108± 1	9.9± 0.2	7.7± 1.1
0.2mg/m3	5	21.8± 2.8	0.6± 0.1	145± 2	2.3± 0.2**	107± 1	10.3± 0.3	7.6± 0.7
1mg/m3	5	24.5± 2.8**	0.5± 0.0	145± 1	2.4± 0.2*	106± 1	10.4± 0.2*	7.3± 0.6
5mg/m3	5	21.5± 2.3	0.5± 0.1	145± 0	2.5± 0.2	107± 1	10.3± 0.3	6.9± 0.3

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

TABLE H1

BALF: CYTOLOGICAL ANALYSIS: MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

BALF: CYTOLOGICAL ANALYSIS (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	TOTAL CELLS $10^3/\mu\ell$	Differential BALF Cells (%) NEUTRO	LYMPHO	MONO	EOSINO	ALVEOLAR MACROPHAGE	OTHER
Control	5	0.24± 0.02	0.0± 0.0	0.1± 0.1	0.0± 0.1	0.0± 0.0	99.9± 0.1	0.0± 0.0
0.2 mg/mg^3	5	0.21± 0.05	0.4± 0.3**	0.1± 0.1	0.2± 0.1	0.0± 0.0	99.3± 0.2**	0.0± 0.0
1 mg/mg^3	5	0.18± 0.03	1.5± 1.1**	0.0± 0.1	0.5± 0.3**	0.0± 0.0	97.9± 1.2**	0.0± 0.0
5 mg/mg^3	5	0.20± 0.05	24.1± 5.3**	0.1± 0.2	3.5± 1.2**	0.1± 0.1**	72.3± 5.2**	0.0± 0.0

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

TABLE H2

BALF: CYTOLOGICAL ANALYSIS: FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE

BALF: CYTOLOGICAL ANALYSIS (SUMMARY)
ALL ANIMALS (3W)

REPORT TYPE : A1

Group Name	NO. of Animals	TOTAL CELLS $10^3/\mu\ell$	Differential BALF Cells (%) NEUTRO	LYMPHO	MONO	EOSINO	ALVEOLAR MACROPHAGE	OTHER
Control	5	0.21± 0.04	0.0± 0.1	0.2± 0.3	0.1± 0.1	0.0± 0.0	99.7± 0.3	0.0± 0.0
0.2 mg/mg^3	5	0.18± 0.03	0.1± 0.2	0.0± 0.0	0.0± 0.1	0.0± 0.0	99.8± 0.2	0.0± 0.0
1 mg/mg^3	5	0.16± 0.03 *	1.8± 0.4 **	0.0± 0.0	0.4± 0.4 *	0.0± 0.0	97.7± 0.6 **	0.0± 0.0
5 mg/mg^3	4	0.23± 0.02	24.4± 4.1 **	2.3± 1.9 **	3.5± 0.9 **	0.4± 0.1 **	69.5± 4.8 **	0.0± 0.0

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

TABLE H3

BALF: CYTOLOGICAL ANALYSIS

(MACROPHAGE)

: MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE

BALF: CYTOLOGICAL ANALYSIS (SUMMARY)
ALL ANIMALS (3W)

REPORT TYPE : A1

Group Name	NO. of Animals	ALVEOLAR MACROPHAGE (AM) (%) MONONUCLEAR AM	BINUCLEAR AM	MULTINUCLEAR AM
Control	5	98.4± 0.7	1.6± 0.7	0.1± 0.1
0.2 mg/mg^3	5	98.1± 0.8	1.9± 0.8	0.0± 0.1
1 mg/mg^3	5	96.6± 0.3 **	3.0± 0.3 **	0.5± 0.2 **
5 mg/mg^3	5	96.3± 0.8 **	3.3± 0.6 **	0.4± 0.3 **

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

TABLE H4

BALF: CYTOLOGICAL ANALYSIS

(MACROPHAGE)

: FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE

BALF: CYTOLOGICAL ANALYSIS (SUMMARY)
ALL ANIMALS (3W)

REPORT TYPE : A1

Group Name	NO. of Animals	ALVEOLAR MACROPHAGE (AM) (%) MONONUCLEAR AM	BINUCLEAR AM	MULTINUCLEAR AM
Control	5	98.5± 0.6	1.5± 0.6	0.0± 0.0
0.2 mg/mg³	5	98.0± 0.2	1.8± 0.2	0.2± 0.1 **
1 mg/mg³	5	96.5± 0.6 **	3.2± 0.5 **	0.3± 0.3 **
5 mg/mg³	4	94.9± 1.1 **	4.4± 1.0 **	0.7± 0.2 **

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

TABLE H5

BALF: BIOCHEMICAL ANALYSIS

: MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE

BALF: BIOCHEMICAL ANALYSIS (SUMMARY)
ALL ANIMALS (3W)

REPORT TYPE : A1

Group Name	NO. of Animals	TOTAL PROTEIN μg/mℓ	ALBUMIN μg/mℓ	LDH U/ℓ	ALP U/ℓ
Control	5	45.4± 4.0	27.6± 1.7	–	132.6± 10.0
0.2 mg/mg³	5	56.6± 12.1	32.8± 2.4	–	146.0± 10.3
1 mg/mg³	5	75.8± 5.8**	45.0± 4.3**	–	217.2± 33.8**
5 mg/mg³	5	125.0± 8.7**	64.6± 5.7**	–	328.6± 24.8**

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

TABLE H6

BALF: BIOCHEMICAL ANALYSIS

: FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 1
SEX : FEMALE REPORT TYPE : A1

BALF: BIOCHEMICAL ANALYSIS (SUMMARY)
ALL ANIMALS (3W)

Group Name	NO. of Animals	TOTAL PROTEIN μg/mℓ	ALBUMIN μg/mℓ	LDH U/ℓ	ALP U/ℓ
Control	5	45.8± 3.7	30.0± 2.7	−	105.2± 15.4
0.2 mg/mg³	5	47.6± 4.6	32.0± 2.1	−	113.4± 14.4
1 mg/mg³	5	72.2± 5.6**	46.6± 3.4**	−	167.6± 16.0**
5 mg/mg³	4	122.0± 6.3**	68.8± 3.5**	−	279.0± 24.6**

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

TABLE H7

BALF: CYTOLOGICAL ANALYSIS: MALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 2
SEX : MALE

BALF: CYTOLOGICAL ANALYSIS (SUMMARY)
ALL ANIMALS (7W)

REPORT TYPE : A2

Group Name	NO. of Animals	TOTAL CELLS $10^3/\mu\ell$	Differential BALF Cells (%) NEUTRO	LYMPHO	MONO	EOSINO	ALVEOLAR MACROPHAGE	OTHER
Control	5	0.24± 0.03	0.1± 0.1	0.1± 0.1	0.2± 0.2	0.0± 0.0	99.7± 0.3	0.0± 0.0
0.2 mg/mg^3	5	0.20± 0.03	0.1± 0.1	0.1± 0.1	0.2± 0.1	0.0± 0.0	99.7± 0.2	0.0± 0.0
1 mg/mg^3	5	0.18± 0.02	0.3± 0.3	0.1± 0.2	0.2± 0.1	0.0± 0.0	99.4± 0.4	0.0± 0.0
5 mg/mg^3	5	0.21± 0.02	1.3± 0.6 **	0.4± 0.4	0.6± 0.3 **	0.0± 0.0	97.7± 0.7 **	0.0± 0.0

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

TABLE H8

BALF: CYTOLOGICAL ANALYSIS: FEMALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 2
SEX : FEMALE

BALF: CYTOLOGICAL ANALYSIS (SUMMARY)
ALL ANIMALS (7W)

REPORT TYPE : A2

Group Name	NO. of Animals	TOTAL CELLS $10^3/\mu\ell$	Differential BALF Cells (%) NEUTRO	LYMPHO	MONO	EOSINO	ALVEOLAR MACROPHAGE	OTHER
Control	5	0.24± 0.04	0.3± 0.6	0.4± 0.3	0.2± 0.1	0.0± 0.0	99.1± 0.9	0.0± 0.0
0.2 mg/mg^3	5	0.17± 0.02 **	0.1± 0.1	0.2± 0.1	0.3± 0.1	0.0± 0.0	99.5± 0.3	0.0± 0.0
1 mg/mg^3	5	0.17± 0.03 **	0.2± 0.2	0.4± 0.4	0.5± 0.1	0.0± 0.1	98.9± 0.3	0.0± 0.0
5 mg/mg^3	5	0.19± 0.02 *	2.9± 1.0 **	1.7± 0.8	0.9± 0.9	0.0± 0.0	94.5± 2.3 **	0.0± 0.0

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

TABLE H9

BALF: CYTOLOGICAL ANALYSIS

(MACROPHAGE)

: MALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 2
SEX : MALE

BALF: CYTOLOGICAL ANALYSIS (SUMMARY)
ALL ANIMALS (7W)

REPORT TYPE : A2

Group Name	NO. of Animals	ALVEOLAR MACROPHAGE (AM) (%) MONONUCLEAR AM	BINUCLEAR AM	MULTINUCLEAR AM
Control	5	99.1± 0.7	0.9± 0.7	0.0± 0.0
0.2 mg/mg^3	5	98.8± 0.6	1.1± 0.6	0.0± 0.1
1 mg/mg^3	5	97.6± 0.5 **	2.3± 0.5 **	0.1± 0.1
5 mg/mg^3	5	97.1± 0.5 **	2.3± 0.7 **	0.6± 0.3 **

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

TABLE H10

BALF: CYTOLOGICAL ANALYSIS

(MACROPHAGE)

: FEMALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 2
SEX : FEMALE

BALF: CYTOLOGICAL ANALYSIS (SUMMARY)
ALL ANIMALS (7W)

REPORT TYPE : A2

Group Name	NO. of Animals	ALVEOLAR MACROPHAGE (AM) (%) MONONUCLEAR AM	BINUCLEAR AM	MULTINUCLEAR AM
Control	5	98.6± 0.5	1.4± 0.5	0.0± 0.0
0.2 mg/mg^3	5	98.4± 0.4	1.5± 0.5	0.0± 0.1
1 mg/mg^3	5	97.4± 0.5 *	2.1± 0.5	0.5± 0.3 **
5 mg/mg^3	5	96.2± 0.9 **	3.1± 0.9 **	0.8± 0.4 **

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

TABLE H11

BALF: BIOCHEMICAL ANALYSIS

: MALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 2
SEX : MALE REPORT TYPE : A2

BALF: BIOCHEMICAL ANALYSIS (SUMMARY)
ALL ANIMALS (7W)

Group Name	NO. of Animals	TOTAL PROTEIN μg/mℓ	ALBUMIN μg/mℓ	LDH U/ℓ	ALP U/ℓ
Control	5	55.2± 4.5	25.4± 3.1	30.8± 6.9	130.2± 6.7
0.2 mg/mg^3	5	56.4± 4.0	27.0± 3.4	31.4± 3.9	142.0± 17.9
1 mg/mg^3	5	70.4± 5.2**	34.0± 2.9**	42.0± 6.4*	156.2± 28.9
5 mg/mg^3	5	83.0± 3.7**	43.4± 1.7**	54.4± 4.2**	177.2± 17.7**

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

TABLE H12

BALF: BIOCHEMICAL ANALYSIS

: FEMALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj [F344/DuCrj]
MEASURE. TIME : 2
SEX : FEMALE REPORT TYPE : A2

BALF: BIOCHEMICAL ANALYSIS (SUMMARY)
ALL ANIMALS (7W)

Group Name	NO. of Animals	TOTAL PROTEIN μg/mℓ	ALBUMIN μg/mℓ	LDH U/ℓ	ALP U/ℓ
Control	5	53.6± 8.1	29.0± 2.5	32.4± 4.2	112.6± 21.4
0.2 mg/mg^3	5	53.0± 2.4	27.4± 1.7	33.0± 2.0	118.2± 13.8
1 mg/mg^3	5	69.8± 5.1**	38.2± 3.0**	42.6± 3.0**	139.6± 16.6
5 mg/mg^3	5	82.0± 6.6**	45.6± 2.1**	57.0± 2.8**	150.4± 18.6*

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

TABLE I1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	TESTES	HEART	LUNG L
Control	5	164± 8	0.285± 0.034	0.057± 0.013	2.253± 0.273	0.654± 0.043	0.313± 0.023
0.2mg/m3	5	152± 9	0.266± 0.034	0.057± 0.006	2.255± 0.184	0.616± 0.055	0.306± 0.018
1mg/m3	5	158± 7	0.246± 0.024	0.057± 0.008	2.337± 0.178	0.629± 0.042	0.326± 0.028
5mg/m3	5	150± 7	0.227± 0.028*	0.047± 0.003	2.383± 0.070	0.619± 0.037	0.331± 0.028

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	1.318± 0.082	0.428± 0.017	5.362± 0.418	1.769± 0.031
0.2mg/m3	5	1.255± 0.061	0.434± 0.043	4.836± 0.279	1.768± 0.032
1mg/m3	5	1.328± 0.021	0.451± 0.034	5.106± 0.342	1.761± 0.047
5mg/m3	5	1.238± 0.092	0.410± 0.032	4.684± 0.247*	1.787± 0.029

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

TABLE I2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	OVARIES	HEART	LUNG L
Control	5	107± 5	0.228± 0.013	0.057± 0.006	0.096± 0.014	0.450± 0.019	0.250± 0.010
0.2mg/m3	5	103± 6	0.205± 0.009	0.055± 0.006	0.099± 0.017	0.441± 0.032	0.252± 0.034
1mg/m3	5	102± 4	0.206± 0.022	0.053± 0.005	0.087± 0.019	0.428± 0.023	0.235± 0.008
5mg/m3	5	100± 3	0.223± 0.011	0.052± 0.004	0.079± 0.012	0.448± 0.006	0.270± 0.030

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.956± 0.015	0.328± 0.037	3.550± 0.226	1.658± 0.027
0.2mg/m3	5	0.925± 0.058	0.327± 0.013	3.314± 0.235	1.650± 0.028
1mg/m3	5	0.909± 0.032	0.297± 0.006	3.284± 0.097	1.664± 0.027
5mg/m3	5	0.930± 0.031	0.306± 0.021	3.363± 0.332	1.664± 0.018

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

TABLE I3

ORGAN WEIGHT, ABSOLUTE : MALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A2
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (7W)

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	TESTES	HEART	LUNG L
Control	5	232± 8	0.233± 0.028	0.058± 0.007	3.041± 0.161	0.797± 0.044	0.368± 0.028
0.2mg/m3	5	230± 9	0.228± 0.018	0.057± 0.006	2.939± 0.082	0.818± 0.042	0.388± 0.042
1mg/m3	5	228± 13	0.237± 0.031	0.054± 0.008	2.883± 0.095	0.820± 0.063	0.398± 0.040
5mg/m3	5	219± 13	0.227± 0.018	0.051± 0.006	2.894± 0.085	0.777± 0.048	0.396± 0.029

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A2
SEX : MALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (7W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	1.661± 0.124	0.519± 0.036	6.631± 0.429	1.852± 0.049
0.2mg/m3	5	1.615± 0.090	0.513± 0.025	6.658± 0.147	1.864± 0.032
1mg/m3	5	1.655± 0.114	0.533± 0.044	6.806± 0.358	1.864± 0.060
5mg/m3	5	1.564± 0.086	0.495± 0.043	6.470± 0.607	1.849± 0.047

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

TABLE I4

ORGAN WEIGHT, ABSOLUTE : FEMALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A2
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (7W)

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	OVARIES	HEART	LUNG L
Control	5	138± 7	0.192± 0.019	0.064± 0.008	0.105± 0.013	0.533± 0.021	0.293± 0.018
0.2mg/m3	5	132± 5	0.192± 0.031	0.062± 0.006	0.099± 0.010	0.516± 0.025	0.281± 0.011
1mg/m3	5	134± 5	0.187± 0.026	0.062± 0.005	0.097± 0.014	0.534± 0.037	0.298± 0.023
5mg/m3	5	133± 6	0.197± 0.012	0.064± 0.006	0.099± 0.014	0.521± 0.023	0.296± 0.017

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A2
SEX : FEMALE
UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
SURVIVAL ANIMALS (7W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	1.060± 0.067	0.369± 0.007	3.782± 0.190	1.722± 0.018
0.2mg/m3	5	0.985± 0.048	0.374± 0.018	3.713± 0.089	1.716± 0.026
1mg/m3	5	1.056± 0.049	0.384± 0.010	3.784± 0.242	1.723± 0.048
5mg/m3	5	1.045± 0.074	0.361± 0.017	3.645± 0.078	1.755± 0.015

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

TABLE J1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNG L
Control	5	164± 8	0.174± 0.019	0.035± 0.008	1.376± 0.143	0.400± 0.025	0.192± 0.019
0.2mg/m3	5	152± 9	0.175± 0.020	0.037± 0.003	1.484± 0.091	0.404± 0.018	0.201± 0.004
1mg/m3	5	158± 7	0.155± 0.010	0.036± 0.006	1.476± 0.062	0.398± 0.018	0.206± 0.010
5mg/m3	5	150± 7	0.151± 0.018	0.031± 0.002	1.587± 0.089*	0.412± 0.023	0.220± 0.011**

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.806± 0.029	0.262± 0.007	3.279± 0.205	1.084± 0.062
0.2mg/m3	5	0.826± 0.015	0.285± 0.015*	3.182± 0.104	1.166± 0.052
1mg/m3	5	0.841± 0.042	0.285± 0.011*	3.226± 0.093	1.114± 0.037
5mg/m3	5	0.823± 0.028	0.272± 0.009	3.114± 0.048	1.190± 0.064*

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

TABLE J2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNG L
Control	5	107± 5	0.214± 0.005	0.054± 0.006	0.090± 0.014	0.423± 0.017	0.235± 0.018
0.2mg/m3	5	103± 6	0.198± 0.006	0.054± 0.005	0.096± 0.012	0.427± 0.018	0.244± 0.029
1mg/m3	5	102± 4	0.202± 0.017	0.052± 0.007	0.086± 0.019	0.419± 0.018	0.231± 0.015
5mg/m3	5	100± 3	0.223± 0.012	0.052± 0.004	0.079± 0.010	0.448± 0.019	0.270± 0.023

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (3W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.898± 0.037	0.308± 0.025	3.330± 0.150	1.558± 0.074
0.2mg/m3	5	0.897± 0.028	0.318± 0.014	3.210± 0.079	1.603± 0.082
1mg/m3	5	0.892± 0.028	0.291± 0.013	3.221± 0.063	1.634± 0.085
5mg/m3	5	0.930± 0.024	0.306± 0.016	3.360± 0.269	1.665± 0.044

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

TABLE J3

ORGAN WEIGHT, RELATIVE : MALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A2
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (7W)

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNG L
Control	5	232± 8	0.101± 0.014	0.025± 0.002	1.315± 0.094	0.344± 0.013	0.159± 0.011
0.2mg/m3	5	230± 9	0.099± 0.007	0.025± 0.002	1.281± 0.015	0.357± 0.019	0.169± 0.018
1mg/m3	5	228± 13	0.103± 0.010	0.023± 0.003	1.267± 0.086	0.359± 0.021	0.174± 0.009
5mg/m3	5	219± 13	0.104± 0.007	0.023± 0.003	1.323± 0.089	0.354± 0.021	0.181± 0.011

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A2
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (7W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.717± 0.037	0.224± 0.009	2.861± 0.095	0.800± 0.032
0.2mg/m3	5	0.703± 0.025	0.224± 0.013	2.901± 0.054	0.812± 0.023
1mg/m3	5	0.725± 0.029	0.233± 0.009	2.984± 0.074	0.818± 0.049
5mg/m3	5	0.714± 0.028	0.226± 0.012	2.945± 0.123	0.845± 0.053

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

TABLE J4

ORGAN WEIGHT, RELATIVE : FEMALE

(POST-EXPOSURE PERIOD)

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A2
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (7W)

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNG L
Control	5	138± 7	0.139± 0.011	0.047± 0.006	0.076± 0.007	0.388± 0.025	0.213± 0.012
0.2mg/m3	5	132± 5	0.145± 0.020	0.047± 0.005	0.076± 0.005	0.392± 0.019	0.214± 0.003
1mg/m3	5	134± 5	0.140± 0.016	0.046± 0.004	0.072± 0.010	0.398± 0.018	0.223± 0.017
5mg/m3	5	133± 6	0.148± 0.013	0.048± 0.004	0.075± 0.012	0.392± 0.019	0.223± 0.015

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

STUDY NO. : 0773
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A2
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (7W)

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	0.770± 0.031	0.269± 0.017	2.750± 0.082	1.254± 0.055
0.2mg/m3	5	0.748± 0.019	0.284± 0.007	2.824± 0.101	1.305± 0.054
1mg/m3	5	0.789± 0.035	0.287± 0.004*	2.822± 0.087	1.286± 0.029
5mg/m3	5	0.787± 0.058	0.272± 0.010	2.748± 0.109	1.324± 0.059

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

TABLE K1

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control				0.2mg/m3				1mg/m3				5mg/m3			
			5				5				5				5			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	goblet cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (60)	0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)
	deposit of fiber:respiratory epithelium		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (20)	0 (0)	0 (0)	0 (0)	4 (80)	0 (0)	0 (0)	0 (0)
nasopharynx			< 5>				< 5>				< 5>				< 5>			
	goblet cell hyperplasia		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (40)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
lung			< 5>				< 5>				< 5>				< 5>			
	deposit of fiber:alveolar space, phagocytosed by alveolar macrophages		0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
	deposit of fiber:alveolar space, non-phagocytosed		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
	deposit of fiber:bronchiolar space, phagocytosed by alveolar macrophages		0 (0)	0 (0)	0 (0)	0 (0)	3 (60)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
	deposit of fiber:bronchiolar space, non-phagocytosed		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (80)	0 (0)	0 (0)	0 (0)	5 (100)	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

Organ	Findings	Group Name / No. of Animals on Study / Grade	Control 5				0.2mg/m3 5				1mg/m3 5				5mg/m3 5			
			1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)	1 (%)	2 (%)	3 (%)	4 (%)
{Respiratory system}																		
lung		< 5>																
	deposit of fiber:alveolar wall		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
	deposit of fiber :bronchus-associated lymphoid tissue		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
{Hematopoietic system}																		
lymph node		< 5>																
	deposit of fiber:mediastinum		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 (20)	0 (0)	0 (0)	0 (0)
{Urinary system}																		
kidney		< 5>																
	eosinophilic body		5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)	5 (100)	0 (0)	0 (0)	0 (0)
	regeneration:proximal tubule		1 (20)	0 (0)	0 (0)	0 (0)	1 (20)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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

TABLE K2

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

Organ	Findings	Group Name	Control				0.2mg/m3				1mg/m3				5mg/m3			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	goblet cell hyperplasia		0	0	0	0	0	0	0	0	1	0	0	0	0	5	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	deposit of fiber:respiratory epithelium		0	0	0	0	0	0	0	0	2	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
nasopharynx			< 5>				< 5>				< 5>				< 5>			
	goblet cell hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
lung			< 5>				< 5>				< 5>				< 5>			
	deposit of fiber:alveolar space, phagocytosed by alveolar macrophages		0	0	0	0	5	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber:alveolar space, non-phagocytosed		0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber:bronchiolar space, phagocytosed by alveolar macrophages		0	0	0	0	4	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber:bronchiolar space, non-phagocytosed		0	0	0	0	0	0	0	0	3	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(0)	(0)	(0)	(100)	(0)	(0)	(0)

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

Organ	Findings	Group Name	Control				0.2mg/m3				1mg/m3				5mg/m3			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
lung			< 5>				< 5>				< 5>				< 5>			
	deposit of fiber:alveolar wall		0	0	0	0	1	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber :bronchus-associated lymphoid tissue		0	0	0	0	0	0	0	0	2	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
{Hematopoietic system}																		
lymph node			< 5>				< 5>				< 5>				< 5>			
	deposit of fiber:mediastinum		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(60)	(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

TABLE K3

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

(POST-EXPOSURE PERIOD)

Organ	Findings	Group Name	Control				0.2mg/m3				1mg/m3				5mg/m3			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			<5>				<5>				<5>				<5>			
	goblet cell hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	deposit of fiber:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
lung			<5>				<5>				<5>				<5>			
	deposit of fiber:alveolar space, phagocytosed by alveolar macrophages		0	0	0	0	5	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber:alveolar space, non-phagocytosed		0	0	0	0	0	0	0	0	2	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber:bronchiolar space, phagocytosed by alveolar macrophages		0	0	0	0	2	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber:bronchiolar space, non-phagocytosed		0	0	0	0	0	0	0	0	2	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
	deposit of fiber:alveolar wall		0	0	0	0	2	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber :bronchus-associated lymphoid tissue		0	0	0	0	0	0	0	0	4	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(80)	(0)	(0)	(0)	(100)	(0)	(0)	(0)

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

Organ	Findings	Group Name	Control				0.2mg/m3				1mg/m3				5mg/m3			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Hematopoietic system}																		
lymph node			< 5>				< 5>				< 5>				< 5>			
	deposit of fiber:mediastinum		0	0	0	0	0	0	0	0	1	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
{Urinary system}																		
kidney			< 5>				< 5>				< 5>				< 5>			
	eosinophilic body		0	5	0	0	0	5	0	0	0	5	0	0	0	5	0	0
			(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)
	regeneration:proximal tubule		1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
			(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

TABLE K4

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

(POST-EXPOSURE PERIOD)

Organ	Findings	Group Name	Control				0.2mg/m3				1mg/m3				5mg/m3			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Respiratory system}																		
nasal cavit			< 5>				< 5>				< 5>				< 5>			
	deposit of fiber:respiratory epithelium		0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
lung			< 5>				< 5>				< 5>				< 5>			
	deposit of fiber:alveolar space, phagocytosed by alveolar macrophages		0	0	0	0	5	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber:alveolar space, non-phagocytosed		0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(20)	(0)	(0)	(0)
	deposit of fiber:bronchiolar space, phagocytosed by alveolar macrophages		0	0	0	0	2	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber:bronchiolar space, non-phagocytosed		0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(40)	(0)	(0)	(0)
	deposit of fiber:alveolar wall		0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)	(0)	(100)	(0)	(0)	(0)
	deposit of fiber :bronchus-associated lymphoid tissue		0	0	0	0	0	0	0	0	2	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40)	(0)	(0)	(0)	(80)	(0)	(0)	(0)
{Hematopoietic system}																		
lymph node			< 5>				< 5>				< 5>				< 5>			
	deposit of fiber:mediastinum		0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(20)	(0)	(0)	(0)	(80)	(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

Organ	Findings	Group Name	Control				0.2mg/m3				1mg/m3				5mg/m3			
		No. of Animals on Study	5				5				5				5			
		Grade	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
			(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
{Urinary system}																		
kidney			< 5>				< 5>				< 5>				< 5>			
	mineralization:cortico-medullary junction		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)	(20)	(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