酸化チタン（ナノ粒子、アナターゼ型）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：0856

TABLES

TABLES

TABLES (CONTINUED)

TABLE A

CONCENTRATIONS OF TITANIUM DIOXIDE IN THE INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

CONCENTRATIONS OF TITANIUM DIOXIDE IN THE INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

Group Name	Concentration(mg/m^3) Mean ± S.D.
Control	0.000 ± 0.000
0.2 mg/m^3	0.204 ± 0.011
1 mg/m^3	1.013 ± 0.034
5 mg/m^3	5.091 ± 0.575
25 mg/m^3	24.541 ± 1.480

TABLE B1

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0856 SURVIVAL ANIMAL NUMBERS
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : MALE

Group Name	Animals At start	Administration (Days) 0-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	2-1	2-2	2-3	2-4	2-5	2-6
Control	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.2 mg/m3	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1 mg/m3	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 mg/m3	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
25 mg/m3	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
0.2 mg/m3	5	5/ 5 100.0
1 mg/m3	5	5/ 5 100.0
5 mg/m3	5	5/ 5 100.0
25 mg/m3	5	5/ 5 100.0

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

TABLE B2

SURVIVAL ANIMAL NUMBERS : FEMALE

STUDY NO. : 0856 SURVIVAL ANIMAL NUMBERS
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : FEMALE

Group Name	Animals At start	Administration (Days) 0-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	2-1	2-2	2-3	2-4	2-5	2-6
Control	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.2 mg/m3	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1 mg/m3	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 mg/m3	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
25 mg/m3	5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5	5/ 5
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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

STUDY NO. : 0856 SURVIVAL ANIMAL NUMBERS
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2
SEX : FEMALE

Group Name	Animals At start	Administration (Days) 2-7
Control	5	5/ 5 100.0
0.2 mg/m3	5	5/ 5 100.0
1 mg/m3	5	5/ 5 100.0
5 mg/m3	5	5/ 5 100.0
25 mg/m3	5	5/ 5 100.0

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

TABLE C1

CLINICAL OBSERVATION : MALE

STUDY NO. : 0856
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : MALE

Clinical sign	Group Name	Administration Week-day 1-7	2-7
NON REMARKABLE	Control	5	5
	0.2 mg/m3	5	5
	1 mg/m3	5	5
	5 mg/m3	5	5
	25 mg/m3	5	5

TABLE C2

CLINICAL OBSERVATION : FEMALE

Clinical sign	Group Name	Administration Week-day 1-7	2-7
NON REMARKABLE	Control	5	5
	0.2 mg/m3	5	5
	1 mg/m3	5	5
	5 mg/m3	5	5
	25 mg/m3	5	5

TABLE D1

BODY WEIGHT CHANGES AND

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0856
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <5>	0.2 mg/m3 Av.Wt.	0.2 mg/m3 % of cont. <5>	0.2 mg/m3 No.of Surviv.	1 mg/m3 Av.Wt.	1 mg/m3 % of cont. <5>	1 mg/m3 No.of Surviv.	5 mg/m3 Av.Wt.	5 mg/m3 % of cont. <5>	5 mg/m3 No.of Surviv.	25 mg/m3 Av.Wt.	25 mg/m3 % of cont. <5>	25 mg/m3 No.of Surviv.
0-0	114 (5)	5/ 5	114 (5)	100	5/ 5	114 (5)	100	5/ 5	114 (5)	100	5/ 5	114 (5)	100	5/ 5
1-7	141 (5)	5/ 5	140 (5)	99	5/ 5	141 (5)	100	5/ 5	139 (5)	99	5/ 5	137 (5)	97	5/ 5
2-7	169 (5)	5/ 5	166 (5)	98	5/ 5	167 (5)	99	5/ 5	169 (5)	100	5/ 5	164 (5)	97	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. : 0856
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

MEAN BODY WEIGHTS AND SURVIVAL

Week-Day on Study	Control Av.Wt.	Control No.of Surviv. <5>	0.2 mg/m3 Av.Wt.	0.2 mg/m3 % of cont. <5>	0.2 mg/m3 No.of Surviv.	1 mg/m3 Av.Wt.	1 mg/m3 % of cont. <5>	1 mg/m3 No.of Surviv.	5 mg/m3 Av.Wt.	5 mg/m3 % of cont. <5>	5 mg/m3 No.of Surviv.	25 mg/m3 Av.Wt.	25 mg/m3 % of cont. <5>	25 mg/m3 No.of Surviv.
0-0	94 (5)	5/ 5	94 (5)	100	5/ 5	94 (5)	100	5/ 5	94 (5)	100	5/ 5	94 (5)	100	5/ 5
1-7	108 (5)	5/ 5	106 (5)	98	5/ 5	105 (5)	97	5/ 5	103 (5)	95	5/ 5	102 (5)	94	5/ 5
2-7	123 (5)	5/ 5	118 (5)	96	5/ 5	119 (5)	97	5/ 5	116 (5)	94	5/ 5	114 (5)	93	5/ 5

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

TABLE D3

BODY WEIGHT CHANGES : MALE

STUDY NO. : 0856
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0		1-7		2-7	
Control	114±	4	141±	5	169±	9
0.2 mg/m3	114±	4	140±	7	166±	9
1 mg/m3	114±	4	141±	5	167±	5
5 mg/m3	114±	4	139±	5	169±	8
25 mg/m3	114±	4	137±	5	164±	6

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

TABLE D4

BODY WEIGHT CHANGES : FEMALE

STUDY NO. : 0856
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day 0-0	1-7	2-7
Control	94± 3	108± 3	123± 4
0.2 mg/m3	94± 3	106± 4	118± 5
1 mg/m3	94± 3	105± 5	119± 6
5 mg/m3	94± 3	103± 1	116± 3
25 mg/m3	94± 4	102± 6	114± 7

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

TABLE E1

FOOD CONSUMPTION CHANGES AND

SURVIVAL ANIMAL NUMBERS : MALE

STUDY NO. : 0856
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <5>	0.2 mg/m3 Av.FC.	0.2 mg/m3 % of cont. <5>	0.2 mg/m3 No.of Surviv.	1 mg/m3 Av.FC.	1 mg/m3 % of cont. <5>	1 mg/m3 No.of Surviv.	5 mg/m3 Av.FC.	5 mg/m3 % of cont. <5>	5 mg/m3 No.of Surviv.	25 mg/m3 Av.FC.	25 mg/m3 % of cont. <5>	25 mg/m3 No.of Surviv.
1-7	14.9 (5)	5/ 5	15.3 (5)	103	5/ 5	16.6 (5)	111	5/ 5	15.8 (5)	106	5/ 5	15.2 (5)	102	5/ 5
2-7	16.1 (5)	5/ 5	15.8 (5)	98	5/ 5	16.3 (5)	101	5/ 5	16.1 (5)	100	5/ 5	15.3 (5)	95	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. : 0856
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

MEAN FOOD CONSUMPTION(FC) AND SURVIVAL

Week-Day on Study	Control Av.FC.	Control No.of Surviv. <5>	0.2 mg/m3 Av.FC.	0.2 mg/m3 % of cont. <5>	0.2 mg/m3 No.of Surviv.	1 mg/m3 Av.FC.	1 mg/m3 % of cont. <5>	1 mg/m3 No.of Surviv.	5 mg/m3 Av.FC.	5 mg/m3 % of cont. <5>	5 mg/m3 No.of Surviv.	25 mg/m3 Av.FC.	25 mg/m3 % of cont. <5>	25 mg/m3 No.of Surviv.
1-7	11.8 (5)	5/ 5	11.7 (5)	99	5/ 5	11.7 (5)	99	5/ 5	12.1 (5)	103	5/ 5	11.4 (5)	97	5/ 5
2-7	12.0 (5)	5/ 5	11.3 (5)	94	5/ 5	11.1 (5)	93	5/ 5	11.6 (5)	97	5/ 5	11.2 (5)	93	5/ 5

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

TABLE E3

FOOD CONSUMPTION CHANGES : MALE

STUDY NO. : 0856
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration 1-7(7)	week-day(effective) 2-7(7)
Control	14.9± 0.5	16.1± 0.8
0.2 mg/m3	15.3± 0.9	15.8± 1.6
1 mg/m3	16.6± 1.3	16.3± 0.8
5 mg/m3	15.8± 0.4	16.1± 0.8
25 mg/m3	15.2± 1.0	15.3± 0.8

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

TABLE E4

FOOD CONSUMPTION CHANGES : FEMALE

STUDY NO. : 0856
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

Group Name	Administration week-day(effective) 1-7(7)	2-7(7)
Control	11.8± 0.3	12.0± 0.6
0.2 mg/m3	11.7± 0.5	11.3± 0.6
1 mg/m3	11.7± 1.0	11.1± 0.9
5 mg/m3	12.1± 0.3	11.6± 0.3
25 mg/m3	11.4± 0.6	11.2± 0.9

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

TABLE F1

HEMATOLOGY : MALE

STUDY NO. : 0856
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／μℓ	HEMOGLOBIN g／dℓ	HEMATOCRIT %	MCV fℓ	MCH pg	MCHC g／dℓ	PLATELET 10^3／μℓ
Control	4	8.53± 0.21	14.9± 0.3	45.4± 0.9	53.3± 0.8	17.5± 0.3	32.9± 0.5	932± 69
0.2 mg/m3	5	8.59± 0.22	14.9± 0.3	45.4± 1.1	52.8± 0.3	17.4± 0.1	32.9± 0.1	953± 31
1 mg/m3	5	8.68± 0.15	15.0± 0.2	46.0± 0.7	53.0± 0.3	17.3± 0.2	32.7± 0.5	976± 20
5 mg/m3	5	8.71± 0.09	15.0± 0.1	46.3± 0.4	53.1± 0.4	17.3± 0.2	32.5± 0.4	988± 17
25 mg/m3	4	8.53± 0.20	14.8± 0.3	45.4± 1.4	53.2± 0.6	17.4± 0.2	32.6± 0.6	964± 29

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

Group Name	NO. of Animals	RETICULOCYTE %
Control	4	3.2± 0.6
0.2 mg/m3	5	2.9± 0.2
1 mg/m3	5	3.0± 0.2
5 mg/m3	5	3.2± 0.4
25 mg/m3	4	3.2± 0.3

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

STUDY NO. : 0856
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	4	2.67±	0.68	25±	2	72±	2	2±	0	1±	1	1±	1	1±	1
0.2 mg/m3	5	3.02±	0.47	30±	5	66±	5	3±	1	1±	0	0±	1	1±	1
1 mg/m3	5	2.81±	0.40	28±	5	68±	5	2±	0	1±	0	1±	1	0±	0
5 mg/m3	5	2.90±	0.44	28±	4	69±	4	2±	0	1±	0	1±	1	0±	0
25 mg/m3	4	3.84±	0.50*	22±	2	74±	1	2±	1	1±	0	0±	1	1±	1

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

TABLE F2

HEMATOLOGY : FEMALE

Group Name	NO. of Animals	RED BLOOD CELL 10^6／μℓ	HEMOGLOBIN g／dℓ	HEMATOCRIT %	MCV f ℓ	MCH p g	MCHC g／dℓ	PLATELET 10^3／μℓ
Control	3	8.77± 0.26	15.2± 0.5	45.7± 1.2	52.2± 0.4	17.4± 0.2	33.3± 0.4	829± 39
0.2 mg/m3	4	8.89± 0.16	15.6± 0.4	46.1± 0.7	51.8± 0.3	17.6± 0.2	33.8± 0.4	881± 58
1 mg/m3	5	9.00± 0.17	15.8± 0.3	47.2± 0.9	52.4± 0.3	17.6± 0.1	33.5± 0.2	861± 52
5 mg/m3	4	8.96± 0.15	15.7± 0.1	46.8± 0.7	52.2± 0.2	17.5± 0.3	33.6± 0.4	838± 69
25 mg/m3	3	8.89± 0.12	15.7± 0.3	47.0± 0.7	52.9± 0.7	17.6± 0.1	33.4± 0.4	841± 48

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

Group Name	NO. of Animals	RETICULOCYTE %
Control	3	1.6± 0.2
0.2 mg/m3	4	1.5± 0.2
1 mg/m3	5	1.5± 0.3
5 mg/m3	4	1.4± 0.1
25 mg/m3	3	1.6± 0.2

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

STUDY NO. : 0856
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	3	2.09±	0.59	19±	3	76±	2	3±	1	2±	1	1±	1	1±	1
0.2 mg/m3	4	2.65±	0.28	24±	8	71±	9	2±	1	2±	1	0±	1	1±	1
1 mg/m3	5	2.92±	0.76	21±	5	75±	5	2±	0	1±	0	1±	1	0±	1
5 mg/m3	4	3.09±	0.96	19±	5	78±	5	2±	1	1±	0	0±	1	1±	1
25 mg/m3	3	3.34±	0.14	14±	3	82±	3	2±	1	1±	0	0±	0	1±	1

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

TABLE G1

BIOCHEMISTRY : MALE

STUDY NO. : 0856
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	5.5± 0.2	3.2± 0.1	1.4± 0.0	0.02± 0.00	165± 20	66± 3	45± 14
0.2 mg/m3	5	5.6± 0.2	3.3± 0.1	1.4± 0.1	0.02± 0.00	157± 4	64± 4	39± 11
1 mg/m3	5	5.5± 0.1	3.1± 0.1	1.3± 0.1	0.02± 0.00	149± 9	60± 2	31± 2
5 mg/m3	5	5.5± 0.1	3.1± 0.1	1.3± 0.0	0.02± 0.00	170± 28	61± 1	36± 13
25 mg/m3	5	5.4± 0.1	3.1± 0.1	1.4± 0.1	0.03± 0.01	163± 24	63± 5	43± 16

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

STUDY NO. : 0856
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 U／L		ALT U／L		LDH U／L		ALP U／L		G-GTP U／L		CK U／L	
Control	5	119±	4	68±	6	34±	2	133±	53	1135±	139	0.7±	0.4	270±	14
0.2 mg/m3	5	118±	5	68±	8	35±	1	68±	5	1161±	70	1.0±	0.3	256±	13
1 mg/m3	5	110±	1**	67±	3	35±	2	82±	31	1167±	118	0.6±	0.2	252±	30
5 mg/m3	5	109±	2**	65±	3	33±	2	70±	12	1182±	95	0.4±	0.3	246±	24
25 mg/m3	5	116±	6	65±	4	33±	3	73±	11	1110±	80	0.6±	0.3	243±	19

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

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± 0.9	0.25± 0.01	145± 2	3.1± 0.3	104± 1	10.0± 0.2	7.9± 0.7
0.2 mg/m3	5	19.5± 2.2	0.25± 0.01	146± 1	3.3± 0.1	104± 1	10.2± 0.2	8.3± 0.4
1 mg/m3	5	17.6± 1.5	0.24± 0.01	147± 1	3.2± 0.3	105± 1	10.2± 0.2	8.6± 0.4
5 mg/m3	5	17.9± 1.5	0.21± 0.02**	147± 1	3.2± 0.2	104± 1	10.4± 0.3	8.7± 0.5
25 mg/m3	5	17.7± 1.7	0.22± 0.01**	147± 1	3.3± 0.2	104± 1	10.2± 0.2	9.1± 0.8**

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

TABLE G2

BIOCHEMISTRY : FEMALE

STUDY NO. : 0856
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	5.4± 0.1	3.2± 0.1	1.5± 0.1	0.02± 0.01	137± 13	72± 5	12± 2
0.2 mg/m3	5	5.5± 0.1	3.2± 0.1	1.5± 0.1	0.02± 0.00	125± 17	76± 8	19± 6
1 mg/m3	5	5.4± 0.1	3.2± 0.1	1.4± 0.1	0.02± 0.00	139± 11	72± 5	16± 5
5 mg/m3	5	5.4± 0.3	3.2± 0.1	1.5± 0.0	0.02± 0.01	139± 8	75± 8	17± 10
25 mg/m3	5	5.6± 0.2	3.3± 0.1	1.5± 0.1	0.02± 0.01	135± 14	81± 7	20± 6

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

STUDY NO. : 0856
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 U／L	ALT U／L	LDH U／L	ALP U／L	G-GTP U／L	CK U／L
Control	5	128± 7	70± 7	32± 2	184± 199	889± 60	0.9± 0.4	262± 117
0.2 mg/m3	5	142± 12	68± 3	31± 1	88± 11	899± 56	0.9± 0.3	214± 7
1 mg/m3	5	134± 9	70± 6	31± 2	101± 49	911± 69	0.9± 0.2	228± 25
5 mg/m3	5	138± 12	70± 2	29± 1	123± 43	884± 57	1.0± 0.3	240± 20
25 mg/m3	5	144± 9	72± 6	30± 2	157± 80	901± 77	1.4± 0.3	281± 71

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

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	20.5± 1.8	0.26± 0.01	145± 1	3.3± 0.8	105± 2	10.1± 0.3	8.2± 1.4
0.2 mg/m3	5	19.5± 1.1	0.25± 0.02	145± 1	2.9± 0.2	105± 1	10.0± 0.4	7.9± 0.5
1 mg/m3	5	20.3± 2.0	0.23± 0.01	147± 1*	3.2± 0.1	107± 0	10.1± 0.2	8.7± 0.4
5 mg/m3	5	21.9± 2.8	0.24± 0.03	148± 3**	3.2± 0.2	109± 3**	10.0± 0.2	8.6± 0.6
25 mg/m3	5	19.4± 1.9	0.25± 0.01	148± 1**	3.2± 0.3	107± 1	9.9± 0.4	8.7± 0.5

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

TABLE H1

BALF : CYTOLOGICAL ANALYSIS : MALE

STUDY NO. : 0856
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	TOTAL CELLS $10^3/\mu\ell$	Differential BALF Cells (%) NEUTRO	LYMPHO	EOSINO	ALVEOLAR MACROPHAGE	OTHER
Control	5	0.35± 0.06	0.2± 0.3	0.0± 0.1	0.0± 0.0	99.7± 0.2	0.0± 0.0
0.2 mg/mg^3	5	0.35± 0.02	0.3± 0.2	0.0± 0.0	0.0± 0.0	99.7± 0.2	0.0± 0.0
1 mg/mg^3	5	0.40± 0.04	0.2± 0.3	0.0± 0.1	0.0± 0.1	99.7± 0.3	0.0± 0.0
5 mg/mg^3	5	0.33± 0.07	0.4± 0.2	0.0± 0.0	0.0± 0.0	99.6± 0.2	0.0± 0.0
25 mg/mg^3	5	0.29± 0.04	0.4± 0.2	0.0± 0.1	0.0± 0.1	99.5± 0.3	0.0± 0.0

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

TABLE H2

BALF : CYTOLOGICAL ANALYSIS : FEMALE

S TUDY NO. : 0856
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	EOSINO	ALVEOLAR MACROPHAGE	OTHER
Control	5	0.26± 0.05	0.3± 0.2	0.0± 0.0	0.0± 0.1	99.7± 0.2	0.0± 0.0
0.2 mg/mg^3	5	0.30± 0.07	0.2± 0.3	0.0± 0.0	0.0± 0.0	99.8± 0.3	0.0± 0.0
1 mg/mg^3	5	0.30± 0.07	0.3± 0.3	0.0± 0.0	0.0± 0.0	99.7± 0.3	0.0± 0.0
5 mg/mg^3	5	0.27± 0.04	0.2± 0.2	0.0± 0.0	0.0± 0.0	99.8± 0.2	0.0± 0.0
25 mg/mg^3	5	0.24± 0.02	0.3± 0.3	0.0± 0.1	0.0± 0.0	99.7± 0.3	0.0± 0.0

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

TABLE I1

BALF : BIOCHEMICAL ANALYSIS : MALE

STUDY NO. : 0856
ANIMAL : RAT F344/DuCrlCrlj[F344/DuCrj]
MEASURE. TIME : 1
SEX : MALE REPORT TYPE : A1

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

Group Name	NO. of Animals	TOTAL PROTEIN ug/mL		ALBUMIN ug/mL		LDH U/L		ALP U/L		G-GTP U/L	
Control	5	85±	7	27±	2	40±	4	172±	13	1.3±	0.3
0.2 mg/m3	5	85±	7	29±	3	38±	2	162±	8	1.2±	0.2
1 mg/m3	5	86±	7	29±	3	37±	4	166±	4	1.4±	0.3
5 mg/m3	5	86±	11	28±	3	38±	4	163±	18	1.1±	0.2
25 mg/m3	5	95±	9	31±	3	39±	6	170±	17	1.2±	0.2

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

TABLE I2

BALF : BIOCHEMICAL ANALYSIS : FEMALE

Group Name	NO. of Animals	TOTAL PROTEIN ug／mL		ALBUMIN ug／mL		LDH U／L		ALP U／L		G-GTP U／L	
Control	5	82±	2	29±	3	42±	1	142±	7	1.3±	0.2
0.2 mg/m3	5	84±	11	30±	5	41±	5	154±	10	1.5±	0.3
1 mg/m3	5	80±	9	28±	2	38±	5	146±	14	1.5±	0.3
5 mg/m3	5	86±	11	30±	3	38±	3	146±	16	1.4±	0.3
25 mg/m3	5	111±	46	38±	18	46±	14	144±	10	1.4±	0.3

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

TABLE J1

ORGAN WEIGHT, ABSOLUTE : MALE

STUDY NO. : 0856
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	LUNG L	KIDNEYS	SPLEEN	LIVER
Control	5	149± 8	0.265± 0.034	0.231± 0.015	1.187± 0.078	0.356± 0.038	4.552± 0.224
0.2 mg/m3	5	146± 6	0.273± 0.029	0.238± 0.007	1.198± 0.049	0.369± 0.024	4.364± 0.222
1 mg/m3	5	149± 4	0.271± 0.037	0.233± 0.003	1.209± 0.025	0.374± 0.020	4.407± 0.150
5 mg/m3	5	148± 7	0.272± 0.017	0.235± 0.009	1.225± 0.035	0.376± 0.011	4.465± 0.256
25 mg/m3	5	145± 4	0.278± 0.035	0.240± 0.021	1.207± 0.042	0.362± 0.027	4.365± 0.238

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

TABLE J2

ORGAN WEIGHT, ABSOLUTE : FEMALE

STUDY NO. : 0856
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	LUNG L	KIDNEYS	SPLEEN	LIVER
Control	5	107± 3	0.242± 0.016	0.181± 0.010	0.911± 0.026	0.274± 0.019	3.256± 0.142
0.2 mg/m3	5	105± 3	0.242± 0.020	0.190± 0.013	0.925± 0.041	0.266± 0.021	3.194± 0.198
1 mg/m3	5	103± 6	0.224± 0.022	0.190± 0.010	0.937± 0.041	0.272± 0.041	3.204± 0.204
5 mg/m3	5	103± 2	0.224± 0.006	0.181± 0.005	0.888± 0.043	0.257± 0.015	3.093± 0.080
25 mg/m3	5	99± 5	0.219± 0.019	0.184± 0.017	0.879± 0.059	0.257± 0.023	3.128± 0.226

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

TABLE K1

ORGAN WEIGHT, RELATIVE : MALE

STUDY NO. : 0856
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	LUNG L	KIDNEYS	SPLEEN	LIVER
Control	5	149± 8	0.177± 0.019	0.155± 0.006	0.795± 0.010	0.238± 0.013	3.052± 0.029
0.2 mg/m3	5	146± 6	0.188± 0.026	0.163± 0.007	0.822± 0.013	0.253± 0.013	2.993± 0.065
1 mg/m3	5	149± 4	0.181± 0.022	0.157± 0.004	0.812± 0.031	0.251± 0.013	2.958± 0.048
5 mg/m3	5	148± 7	0.185± 0.014	0.159± 0.006	0.831± 0.017*	0.255± 0.008	3.024± 0.067
25 mg/m3	5	145± 4	0.192± 0.020	0.166± 0.012	0.835± 0.018*	0.250± 0.014	3.017± 0.089

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

TABLE K2

ORGAN WEIGHT, RELATIVE : FEMALE

STUDY NO. : 0856
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	LUNG L	KIDNEYS	SPLEEN	LIVER
Control	5	107± 3	0.227± 0.015	0.170± 0.008	0.853± 0.021	0.257± 0.013	3.049± 0.097
0.2 mg/m3	5	105± 3	0.231± 0.015	0.181± 0.008	0.882± 0.018	0.254± 0.014	3.047± 0.143
1 mg/m3	5	103± 6	0.217± 0.011	0.185± 0.009*	0.913± 0.048	0.263± 0.024	3.117± 0.077
5 mg/m3	5	103± 2	0.218± 0.007	0.176± 0.004	0.865± 0.032	0.251± 0.011	3.015± 0.066
25 mg/m3	5	99± 5	0.220± 0.018	0.185± 0.010*	0.884± 0.039	0.258± 0.012	3.144± 0.099

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

TABLE L1

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : MALE

Organ	Findings	Group Name	Control				0.2 mg/m3				1 mg/m3				5 mg/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)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	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)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of particle: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)	0 (0)	0 (0)	0 (0)	0 (0)
lung			< 5>				< 5>				< 5>				< 5>			
	deposit of particle: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 particle:alveolar wall		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	deposit of particle: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)
	deposit of particle:bronchiole		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)

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	25 mg/m3			
		No. of Animals on Study	5			
		Grade	1+	2+	3+	4+
			(%)	(%)	(%)	(%)
{Respiratory system}						
nasal cavit			< 5>			
	goblet cell hyperplasia		4	0	0	0
			(80)	(0)	(0)	(0)
nasopharynx			< 5>			
	goblet cell hyperplasia		4	0	0	0
			(80)	(0)	(0)	(0)
	deposit of particle:lymphoid tissue		2	0	0	0
			(40)	(0)	(0)	(0)
lung			< 5>			
	deposit of particle:alveolar space,phagocytosed by alveo		5	0	0	0
			(100)	(0)	(0)	(0)
	deposit of particle:alveolar wall		5	0	0	0
			(100)	(0)	(0)	(0)
	deposit of particle:bronchus-associated lymphoid tissue		5	0	0	0
			(100)	(0)	(0)	(0)
	deposit of particle:bronchiole		5	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				0.2 mg/m3				1 mg/m3				5 mg/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 particle: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)	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

Organ	Findings	Group Name	25 mg/m3			
		No. of Animals on Study	5			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Hematopoietic system}						
lymph node			< 5>			
	deposit of particle:mediastinum		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

TABLE L2

HISTOPATHOLOGICAL FINDINGS :

NON-NEOPLASTIC LESIONS : FEMALE

Organ	Findings	Group Name	Control				0.2 mg/m3				1 mg/m3				5 mg/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	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(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
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of particle: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)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
lung			< 5>				< 5>				< 5>				< 5>			
	deposit of particle: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 particle:alveolar wall		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	deposit of particle:bronchus-associated lymphoid tissue		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)
	deposit of particle:bronchiole		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)

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	25 mg/m3			
		No. of Animals on Study	5			
		Grade	1+	2+	3+	4+
			(%)	(%)	(%)	(%)
{Respiratory system}						
nasal cavit			< 5>			
	goblet cell hyperplasia		2	0	0	0
			(40)	(0)	(0)	(0)
nasopharynx			< 5>			
	goblet cell hyperplasia		4	0	0	0
			(80)	(0)	(0)	(0)
	deposit of particle:lymphoid tissue		4	0	0	0
			(80)	(0)	(0)	(0)
lung			< 5>			
	deposit of particle:alveolar space,phagocytosed by alveo		5	0	0	0
			(100)	(0)	(0)	(0)
	deposit of particle:alveolar wall		5	0	0	0
			(100)	(0)	(0)	(0)
	deposit of particle:bronchus-associated lymphoid tissue		5	0	0	0
			(100)	(0)	(0)	(0)
	deposit of particle:bronchiole		5	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				0.2 mg/m3				1 mg/m3				5 mg/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 particle: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)	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

Organ	Findings	Group Name	25 mg/m3			
		No. of Animals on Study	5			
		Grade	1+ (%)	2+ (%)	3+ (%)	4+ (%)
{Hematopoietic system}						
lymph node			< 5>			
	deposit of particle:mediastinum		3 (60)	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 M

AMOUNT OF TITANIUM DIOXIDE IN THE LUNGS

AMOUNT OF TITANIUM DIOXIDE IN THE LUNGS

Group Name (mg/m^3)		No. of Animals	Amount of Titanium Dioxide
			μg in 1g Lung
Male	0	5	0 ± 0
	0 .2	5	18.24 ± 2.30
	1	5	63.33 ± 7.55
	5	5	212.92 ± 33.62
	25	5	816.71 ± 156.39
Female	0	5	0 ± 0
	0 .2	5	17.04 ± 2.24
	1	5	67.79 ± 6.89
	5	5	221.30 ± 19.96
	25	5	937.11 ± 157.89