

ジクロロメタンのマウスを用いた
吸入による2週間毒性試験報告書

試験番号 : 0230

APPENDIX

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(2-WEEK STUDY)
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APPENDIX A 1

BODY WEIGHT CHANGES :SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 UNIT : g
 REPORT TYPE : A1 2
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day			
	0-0	1-1	1-7	2-7
Control	22.8± 0.9	23.6± 0.9	24.6± 1.3	25.7± 1.2
1000ppm	22.5± 1.0	22.9± 1.3	23.7± 1.6	24.6± 1.8
2000ppm	22.4± 0.9	22.6± 0.7	23.9± 1.2	24.5± 1.3
4000ppm	22.6± 0.7	22.8± 0.8	24.4± 1.0	25.2± 1.0
8000ppm	22.7± 0.7	21.9± 0.7**	23.9± 0.9	25.4± 1.6
16000ppm	22.5± 0.8	20.4± 0.6**	21.5± 1.0**	22.4± 1.6**

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

APPENDIX A 2

BODY WEIGHT CHANGES : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 UNIT : g
 REPORT TYPE : A1 2
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

Group Name	Administration week-day			
	0-0	1-1	1-7	2-7
Control	18.4± 0.8	18.7± 0.8	19.4± 0.9	20.8± 1.3
1000ppm	18.2± 0.6	18.8± 0.5	19.6± 0.6	21.1± 1.1
2000ppm	18.3± 0.7	18.5± 0.4	19.2± 0.5	20.5± 0.7
4000ppm	18.1± 0.7	18.2± 0.8	20.1± 0.7	20.2± 0.7
8000ppm	17.9± 0.4	17.4± 0.3**	19.0± 0.5	19.9± 0.5
16000ppm	17.9± 0.6	14.8± 0.3**	-	-

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

Test of Dunnett

APPENDIX B 1

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : MALE
(2-WEEK STUDY)

STUDY NO. : 0230
ANIMAL : MOUSE BDF1
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

Group Name	Administration week-day(effective)	
	1-7(7)	2-7(7)
Control	4.4± 0.4	4.3± 0.2
1000ppm	4.2± 0.4	4.2± 0.3
2000ppm	4.3± 0.3	4.3± 0.3
4000ppm	4.3± 0.3	4.2± 0.2
8000ppm	4.0± 0.3*	4.6± 0.5
16000ppm	3.4± 0.2**	4.1± 0.3

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

Test of Dunnett

(HAN260)

BAIS 3

APPENDIX B 2

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : FEMALE
(2-WEEK STUDY)

STUDY NO. : 0230
ANIMAL : MOUSE BDF1
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 2

Group Name	Administration week-day(effective)	
	1-7(7)	2-7(7)
Control	3.6± 0.2	3.7± 0.2
1000ppm	3.7± 0.3	3.7± 0.3
2000ppm	3.7± 0.3	3.8± 0.3
4000ppm	3.9± 0.3*	3.5± 0.2
8000ppm	3.5± 0.3	3.6± 0.2
16000ppm	-	-

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

Test of Dunnett

(HAN260)

BAIS3

APPENDIX C 1

HEMATOLOGY : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 SAMPLING DATE : 002-7
 SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 SURVIVAL ANIMALS (2)

PAGE : 1

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	5	10.19± 0.09	15.5± 0.2	47.1± 0.7	46.2± 0.3	15.3± 0.1	33.0± 0.5	1201± 47
1000ppm	5	10.61± 0.28	16.4± 0.4	49.1± 1.3	46.2± 0.3	15.4± 0.2	33.4± 0.6	1193± 138
2000ppm	5	10.30± 0.45	16.0± 0.7	47.7± 1.7	46.3± 0.7	15.5± 0.2	33.5± 0.4	1126± 88
4000ppm	5	10.52± 0.59	16.2± 0.9	48.9± 2.3	46.5± 0.8	15.4± 0.1	33.1± 0.7	1221± 237
8000ppm	5	10.43± 0.37	16.1± 0.6	48.9± 1.1	46.9± 0.7	15.4± 0.2	32.8± 0.5	1187± 167
16000ppm	5	10.34± 0.39	15.8± 0.3	47.2± 1.2	45.6± 0.7	15.3± 0.4	33.5± 0.5	1422± 81

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

Test of Dunnett

(HCL070)

BAIS3

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 SAMPLING DATE : 002-7
 SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 SURVIVAL ANIMALS (2)

Group Name	NO. of Animals	WBC		Differential		WBC (%)		EOSINO	BASO	MONO	LYMPHO	OTHERS					
		$10^3/\mu l$		N-BAND		N-SEG	(%)										
Control	5	1.70±	0.67	1±	1	10±	1	1±	1	0±	0	2±	1	86±	1	0±	0
1000ppm	5	1.58±	0.74	0±	1	10±	4	1±	1	0±	0	2±	2	87±	4	0±	0
2000ppm	5	2.15±	1.03	1±	1	10±	2	1±	1	0±	0	2±	1	87±	3	0±	1
4000ppm	5	2.19±	1.48	0±	1	13±	7	2±	1	0±	0	2±	1	83±	8	0±	0
8000ppm	5	1.23±	0.52	1±	2	12±	6	1±	1	0±	0	2±	1	85±	5	0±	0
16000ppm	5	0.93±	0.33	0±	0	11±	5	0±	1	0±	0	3±	1	85±	6	0±	0

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

Test of Dunnett

APPENDIX C 2

HEMATOLOGY : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 SAMPLING DATE : 002-7
 SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 SURVIVAL ANIMALS (2)

PAGE : 3

Group Name	NO. of Animals	RED BLOOD CELL 10 ⁶ /μℓ		HEMOGLOBIN g/dℓ		HEMATOCRIT %		MCV fℓ		MCH p g		MCHC g/dℓ		PLATELET 10 ³ /μℓ	
Control	5	10.16±	0.40	15.4±	0.4	46.3±	1.8	45.5±	0.6	15.2±	0.2	33.3±	0.7	922±	129
1000ppm	5	10.47±	0.53	16.0±	0.7	48.4±	2.5	46.2±	0.6	15.3±	0.1	33.2±	0.4	1156±	23**
2000ppm	5	10.54±	0.35	16.2±	0.5	49.0±	1.8	46.5±	0.8	15.4±	0.4	33.0±	0.7	1156±	94**
4000ppm	5	10.63±	0.28	16.2±	0.6	49.1±	1.5	46.2±	0.5	15.3±	0.4	33.0±	0.5	1152±	89**
8000ppm	5	10.42±	0.36	16.0±	0.7	47.7±	2.0	45.8±	0.7	15.3±	0.2	33.4±	0.4	1325±	109**
16000ppm	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Test of Dunnett

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 SAMPLING DATE : 002-7
 SEX : FEMALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 SURVIVAL ANIMALS (2)

Group Name	NO. of Animals	WBC		Differential		WBC (%)		EOSINO	BASO	MONO	LYMPHO	OTHERS					
		$10^3/\mu l$		N-BAND		N-SEG											
Control	5	1.79±	0.72	0±	0	8±	2	1±	1	0±	0	2±	1	89±	3	0±	0
1000ppm	5	2.25±	1.04	0±	0	8±	2	1±	1	0±	0	2±	1	88±	1	0±	0
2000ppm	5	2.25±	0.78	0±	0	11±	4	1±	1	0±	0	3±	1	85±	5	0±	0
4000ppm	5	1.94±	0.40	1±	1	11±	7	1±	1	0±	0	2±	1	86±	8	0±	0
8000ppm	5	1.82±	0.93	0±	1	9±	4	1±	1	0±	0	2±	1	87±	4	0±	0
16000ppm	0	-		-		-		-		-		-		-		-	

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

APPENDIX D 1

BIOCHEMISTRY : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 SAMPLING DATE : 003-1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 SURVIVAL ANIMALS (2)

REPORT TYPE : A1

PAGE : 1

Group Name	NO. of Animals	TOTAL PROTEIN g/dl		ALBUMIN g/dl		A/G RATIO		T-BILIRUBIN mg/dl		GLUCOSE mg/dl		T-CHOLESTEROL mg/dl		GOT IU/l	
Control	5	5.2±	0.2	2.8±	0.1	1.2±	0.0	0.30±	0.07	302±	14	95±	10	34±	1
1000ppm	5	5.1±	0.2	2.8±	0.1	1.3±	0.1	0.36±	0.14	270±	57	83±	9	35±	6
2000ppm	5	4.9±	0.2	2.8±	0.1	1.3±	0.1	0.36±	0.08	292±	18	83±	7	35±	4
4000ppm	5	5.1±	0.5	2.8±	0.3	1.2±	0.1	0.36±	0.10	281±	39	89±	17	39±	3
8000ppm	5	5.0±	0.4	2.9±	0.3	1.3±	0.1	0.33±	0.06	305±	22	98±	7	36±	5
16000ppm	5	4.9±	0.2	2.8±	0.1	1.3±	0.0	0.32±	0.04	292±	20	87±	11	36±	5

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

Test of Dunnett

(HCL074)

BAIS 3

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 SAMPLING DATE : 003-1
 SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 SURVIVAL ANIMALS (2)

PAGE : 2

Group Name	NO. of Animals	GPT I U / ℓ		LDH I U / ℓ		CPK I U / ℓ		UREA NITROGEN mg / dl		SODIUM mEq / ℓ		POTASSIUM mEq / ℓ		CHLORIDE mEq / ℓ	
Control	5	13±	1	217±	33	86±	26	19.0±	4.9	153±	2	4.7±	0.1	120±	2
1000ppm	5	13±	1	216±	47	78±	26	20.3±	4.5	153±	1	4.3±	0.5	121±	1
2000ppm	5	13±	2	221±	83	100±	70	21.0±	3.6	152±	1	4.3±	0.5	119±	2
4000ppm	5	15±	2	279±	78	108±	74	21.8±	4.8	154±	2	4.3±	0.6	121±	2
8000ppm	5	14±	6	299±	195	133±	79	18.5±	3.7	155±	1	4.4±	0.3	121±	1
16000ppm	5	13±	1	231±	56	98±	23	16.3±	1.1	154±	1	4.2±	0.3	121±	1

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

STUDY NO. : 0230
ANIMAL : MOUSE BDF1
SAMPLING DATE : 003-1
SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
SURVIVAL ANIMALS (2)

PAGE : 3

Group Name	NO. of Animals	CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	5	9.2± 0.1		9.0± 1.2	
1000ppm	5	8.9± 0.4		8.3± 0.9	
2000ppm	5	9.0± 0.2		8.6± 2.1	
4000ppm	5	9.3± 0.7		9.4± 1.2	
8000ppm	5	8.9± 0.4		10.0± 1.4	
16000ppm	5	9.0± 0.5		9.5± 0.9	

Significant defference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

APPENDIX D 2

BIOCHEMISTRY : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 SAMPLING DATE : 003-1
 SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 SURVIVAL ANIMALS (2)

PAGE : 4

Group Name	NO. of Animals	TOTAL PROTEIN g/dℓ		ALBUMIN g/dℓ		A/G RATIO		T-BILIRUBIN mg/dℓ		GLUCOSE mg/dℓ		T-CHOLESTEROL mg/dℓ		GOT I U/ℓ	
Control	5	5.1±	0.2	3.0±	0.1	1.5±	0.1	0.38±	0.08	297±	66	81±	5	42±	6
1000ppm	5	5.2±	0.3	3.2±	0.2	1.6±	0.2	0.33±	0.11	278±	47	79±	12	45±	4
2000ppm	5	5.3±	0.1	3.2±	0.1	1.6±	0.1	0.27±	0.20	253±	29	72±	4	47±	6
4000ppm	5	5.3±	0.3	3.3±	0.2	1.6±	0.1	0.29±	0.12	268±	37	81±	2	46±	10
8000ppm	5	5.2±	0.5	3.2±	0.3	1.5±	0.1	0.36±	0.15	286±	31	89±	9	42±	4
16000ppm	0	-		-		-		-		-		-		-	

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 SAMPLING DATE : 003-1
 SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 SURVIVAL ANIMALS (2)

PAGE : 5

Group Name	NO. of Animals	GPT IU/ℓ		LDH IU/ℓ		CPK IU/ℓ		UREA NITROGEN mg/dℓ		SODIUM mEq/ℓ		POTASSIUM mEq/ℓ		CHLORIDE mEq/ℓ	
Control	5	13±	3	293±	161	120±	62	18.7±	1.6	153±	2	4.6±	0.9	120±	2
1000ppm	5	16±	5	260±	37	89±	47	19.4±	3.3	156±	4	4.5±	1.0	122±	2
2000ppm	5	17±	3	329±	99	162±	45	17.8±	1.9	154±	2	5.1±	1.2	121±	3
4000ppm	5	17±	2	304±	65	108±	43	16.6±	2.1	156±	3	4.7±	0.5	122±	2
8000ppm	5	14±	4	317±	109	122±	66	15.9±	2.0	155±	2	4.7±	1.0	121±	2
16000ppm	0	-		-		-		-		-		-		-	

Significant defference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

STUDY NO. : 0230
ANIMAL : MOUSE BDF1
SAMPLING DATE : 003-1
SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
SURVIVAL ANIMALS (2)

PAGE : 6

Group Name	NO. of Animals	CALCIUM mg/dl		INORGANIC PHOSPHORUS mg/dl	
Control	5	8.9±	0.5	8.3±	1.3
1000ppm	5	9.1±	0.7	7.7±	2.1
2000ppm	5	9.1±	0.4	10.3±	2.1
4000ppm	5	9.2±	0.3	9.0±	2.4
8000ppm	5	8.9±	0.5	8.4±	0.9
16000ppm	0	-	-	-	-

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

(HCL074)

BAIS3

APPENDIX E 1

GROSS FINDINGS : SUMMARY, MOUSE : MALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0230
ANIMAL : MOUSE BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (2W)

PAGE : 1

Organ	Findings	Group Name NO. of Animals	Control 10 (%)	1000ppm 10 (%)	2000ppm 10 (%)	4000ppm 10 (%)
spleen	black zone		0 (0)	1 (10)	1 (10)	0 (0)
kidney	hydronephrosis		0 (0)	0 (0)	0 (0)	1 (10)

(HPT080)

BAIS 3

STUDY NO. : 0230
ANIMAL : MOUSE BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (2W)

PAGE : 2

Organ	Findings	Group Name NO. of Animals	8000ppm 10 (%)	16000ppm 5 (%)
spleen	black zone		1 (10)	0 (0)
kidney	hydronephrosis		0 (0)	0 (0)

(HPT080)

BAIS 3

APPENDIX E 2

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0230
ANIMAL : MOUSE BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (2W)

PAGE : 3

Organ	Findings	Group Name NO. of Animals	Control 10 (%)	1000ppm 10 (%)	2000ppm 10 (%)	4000ppm 10 (%)
spleen	black zone		1 (10)	1 (10)	0 (0)	0 (0)

(HPT080)

BAIS 3

STUDY NO. : 0230
ANIMAL : MOUSE BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (2W)

PAGE : 4

Organ	Findings	Group Name NO. of Animals	8000ppm 10 (%)	16000ppm 0 (%)
spleen	black zone		1 (10)	- (-)

(HPT080)

BAIS 3

APPENDIX F 1

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (2)

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	25.4± 1.7	0.059± 0.007	0.008± 0.003	0.170± 0.021	0.136± 0.006	0.138± 0.014
1000ppm	5	23.9± 1.6	0.042± 0.015	0.009± 0.003	0.168± 0.021	0.126± 0.014	0.128± 0.013
2000ppm	5	24.5± 1.1	0.038± 0.005	0.008± 0.002	0.165± 0.018	0.127± 0.009	0.133± 0.008
4000ppm	5	25.2± 1.1	0.042± 0.008	0.009± 0.002	0.166± 0.029	0.135± 0.017	0.149± 0.012
8000ppm	5	25.0± 2.0	0.036± 0.008	0.008± 0.003	0.169± 0.007	0.120± 0.010	0.150± 0.017
16000ppm	5	22.4± 1.6	0.021± 0.002**	0.008± 0.001	0.148± 0.005	0.121± 0.005	0.150± 0.016

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

Test of Dunnett

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (2)

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	5	0.372±	0.025	0.054±	0.004	1.296±	0.130	0.440±	0.020
1000ppm	5	0.379±	0.021	0.047±	0.012	1.179±	0.171	0.438±	0.015
2000ppm	5	0.383±	0.027	0.049±	0.005	1.255±	0.079	0.446±	0.019
4000ppm	5	0.459±	0.179	0.054±	0.019	1.299±	0.113	0.440±	0.019
8000ppm	5	0.384±	0.029	0.046±	0.006	1.370±	0.187	0.443±	0.008
16000ppm	5	0.374±	0.027	0.036±	0.003**	1.345±	0.083	0.446±	0.013

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

Test of Dunnett

APPENDIX F 2

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : MALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (2)

PAGE : 1

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	TESTES	HEART	LUNGS
Control	5	25.4± 1.7	0.233± 0.036	0.030± 0.010	0.671± 0.091	0.537± 0.018	0.543± 0.062
1000ppm	5	23.9± 1.6	0.174± 0.051*	0.036± 0.009	0.703± 0.096	0.524± 0.034	0.535± 0.027
2000ppm	5	24.5± 1.1	0.157± 0.025**	0.033± 0.010	0.671± 0.068	0.520± 0.032	0.543± 0.050
4000ppm	5	25.2± 1.1	0.167± 0.028*	0.037± 0.007	0.656± 0.095	0.536± 0.058	0.594± 0.061
8000ppm	5	25.0± 2.0	0.143± 0.029**	0.032± 0.011	0.680± 0.059	0.481± 0.022	0.599± 0.050
16000ppm	5	22.4± 1.6	0.095± 0.009**	0.036± 0.005	0.661± 0.030	0.543± 0.027	0.669± 0.055**

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

Test of Dunnett

STUDY NO. : 0230
ANIMAL : MOUSE BDF1
REPORT TYPE : A1
SEX : MALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (2)

PAGE : 2

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	1.464± 0.080	0.213± 0.012	5.093± 0.334	1.734± 0.105
1000ppm	5	1.585± 0.094	0.193± 0.040	4.912± 0.480	1.836± 0.092
2000ppm	5	1.560± 0.068	0.200± 0.021	5.124± 0.389	1.819± 0.082
4000ppm	5	1.823± 0.713	0.216± 0.077	5.155± 0.338	1.749± 0.077
8000ppm	5	1.538± 0.060	0.183± 0.025	5.461± 0.337	1.777± 0.122
16000ppm	5	1.668± 0.077	0.161± 0.016	6.004± 0.123**	1.993± 0.090**

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

Test of Dunnett

(HCL042)

BAIS 3

APPENDIX G 1

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (2)

Group Name	NO. of Animals	Body Weight	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	20.7± 1.8	0.067± 0.014	0.011± 0.003	0.015± 0.005	0.110± 0.012	0.126± 0.014
1000ppm	5	21.3± 1.2	0.079± 0.010	0.011± 0.002	0.016± 0.003	0.113± 0.007	0.136± 0.009
2000ppm	5	20.3± 0.8	0.074± 0.010	0.010± 0.001	0.014± 0.003	0.117± 0.007	0.138± 0.006
4000ppm	5	20.7± 0.7	0.065± 0.007	0.011± 0.002	0.012± 0.004	0.110± 0.011	0.133± 0.019
8000ppm	5	20.0± 0.7	0.044± 0.003**	0.010± 0.002	0.015± 0.006	0.101± 0.005	0.136± 0.013
16000ppm	0	-	-	-	-	-	-

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

Test of Dunnett

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (2)

Group Name	NO. of Animals	KIDNEYS		SPLEEN		LIVER		BRAIN	
Control	5	0.270±	0.021	0.058±	0.006	0.972±	0.116	0.440±	0.010
1000ppm	5	0.268±	0.014	0.056±	0.009	1.037±	0.132	0.439±	0.008
2000ppm	5	0.257±	0.012	0.057±	0.002	1.055±	0.070	0.441±	0.012
4000ppm	5	0.260±	0.015	0.057±	0.008	1.045±	0.075	0.440±	0.021
8000ppm	5	0.266±	0.018	0.046±	0.006	1.103±	0.039	0.438±	0.010
16000ppm	0	-	-	-	-	-	-	-	-

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

Test of Dunnett

APPENDIX G 2

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (2)

Group Name	NO. of Animals	Body Weight (g)	THYMUS	ADRENALS	OVARIES	HEART	LUNGS
Control	5	20.7± 1.8	0.326± 0.053	0.052± 0.016	0.071± 0.021	0.534± 0.065	0.611± 0.070
1000ppm	5	21.3± 1.2	0.371± 0.056	0.052± 0.009	0.076± 0.015	0.532± 0.060	0.641± 0.053
2000ppm	5	20.3± 0.8	0.367± 0.058	0.051± 0.005	0.068± 0.016	0.575± 0.037	0.680± 0.034
4000ppm	5	20.7± 0.7	0.313± 0.028	0.053± 0.010	0.059± 0.023	0.530± 0.041	0.644± 0.095
8000ppm	5	20.0± 0.7	0.222± 0.011**	0.048± 0.011	0.076± 0.031	0.506± 0.025	0.681± 0.063
16000ppm	0	-	-	-	-	-	-

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

Test of Dunnett

STUDY NO. : 0230
ANIMAL : MOUSE BDF1
REPORT TYPE : A1
SEX : FEMALE
UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
SURVIVAL ANIMALS (2)

PAGE : 4

Group Name	NO. of Animals	KIDNEYS	SPLEEN	LIVER	BRAIN
Control	5	1.307± 0.039	0.283± 0.032	4.699± 0.333	2.139± 0.143
1000ppm	5	1.260± 0.070	0.263± 0.034	4.855± 0.404	2.067± 0.132
2000ppm	5	1.268± 0.053	0.281± 0.017	5.199± 0.354	2.173± 0.066
4000ppm	5	1.256± 0.064	0.274± 0.041	5.050± 0.243	2.127± 0.092
8000ppm	5	1.330± 0.098	0.232± 0.028	5.525± 0.188**	2.193± 0.061
16000ppm	0	-	-	-	-

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

Test of Dunnett

(HCL042)

BAIS 3

APPENDIX H 1

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0- 2W)

Organ	Findings	Control				1000ppm				2000ppm				4000ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Respiratory system]

Lung	hemorrhage	< 0 >				< 0 >				< 0 >				< 0 >			
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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

(HPT150)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0- 2W)

Organ	Findings	8000ppm				16000ppm			
		No. of Animals on Study							
		0				1			
Grade		1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Respiratory system]									
lung	hemorrhage	< 0 >				< 1 >			
		-	-	-	-	1	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 : Number of animals with lesion
 (c) c : b / a * 100

APPENDIX H 2

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (2W)

Organ	Findings	Control				1000ppm				2000ppm				4000ppm			
		No. of Animals on Study				2				2				2			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Hematopoietic system]

spleen	melanin	< 2>				< 2>				< 2>				< 2>			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (2w)

Organ	Findings	Group Name		8000ppm				16000ppm			
		No. of Animals on Study		2				1			
		Grade		1	2	3	4	1	2	3	4
				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Hematopoietic system]

spleen		< 2>				< 1>			
	melanin	1	0	0	0	0	0	0	0
		(50)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

APPENDIX H 3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0- 2W)

Organ	Findings	Control				1000ppm				2000ppm				4000ppm			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
		< 0 >				< 0 >				< 0 >				< 0 >			
Liver	fatty change:central	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)

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

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0- 2W)

Organ	Findings	8000ppm				16000ppm			
		Group Name		No. of Animals on Study		Group Name		No. of Animals on Study	
		0		2		0		2	
Grade		1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)

[Digestive system]

Liver	fatty change:central	< 0 >				< 2 >			
		-	-	-	-	1	0	0	0
		(-)	(-)	(-)	(-)	(50)	(0)	(0)	(0)

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

APPENDIX H 4

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (2W)

Organ	Findings	Control				1000ppm				2000ppm				4000ppm			
		Grade				Grade				Grade				Grade			
		No. of Animals on Study				No. of Animals on Study				No. of Animals on Study				No. of Animals on Study			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
[Urinary system]																	
kidney	basophilic change	< 2>				< 2>				< 2>				< 2>			
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		(0)	(0)	(0)	(0)	(50)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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

STUDY NO. : 0230
 ANIMAL : MOUSE BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (2W)

Organ	Findings	Group Name				Group Name					
		8000ppm				16000ppm					
		No. of Animals on Study				No. of Animals on Study					
		2				0					
		Grade	1	2	3	4	Grade	1	2	3	4
			(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)

[Urinary system]

kidney		< 2>				< 0>			
	basophilic change	0	0	0	0	-	-	-	-
		(0)	(0)	(0)	(0)	(-)	(-)	(-)	(-)

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

APPENDIX I 1

IDENTITY OF DICHLOROMETHANE IN THE 2-WEEK INHALATION STUDY

IDENTITY OF DICHLOROMETHANE IN THE 2-WEEK INHALATION STUDY

Lot No. APR5259

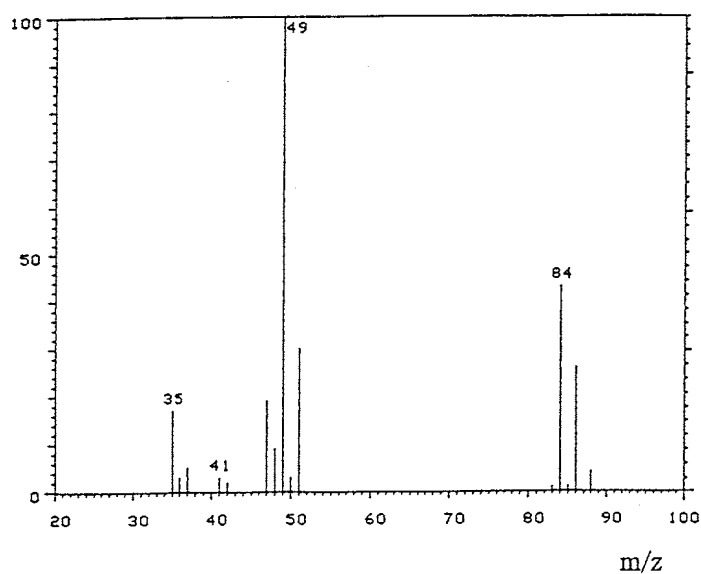
1. Spectral data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI(Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance

Results: The mass spectrum was consistent with literature spectrum.

<u>Determined Values</u>	<u>Literature Values</u> *
Fragment Peak(m/z)	Fragment Peak(m/z)
35	35
49	49
84	84

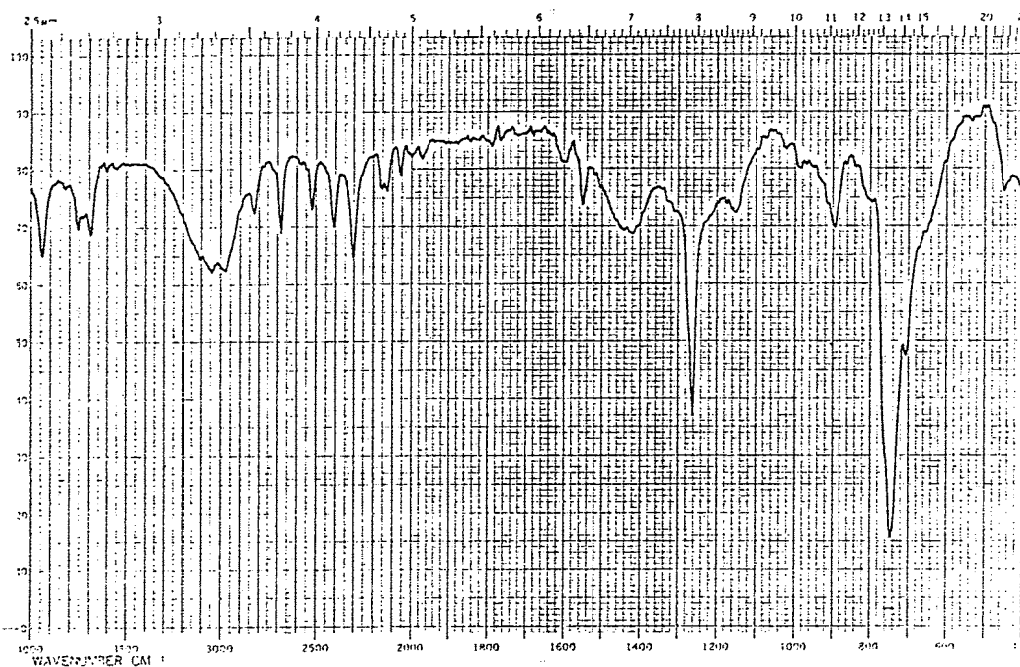
(*EPA/NIH Mass Spectral Data Base (1978) Vol. 1, p. 33.)

Infrared Spectrometry

Instrument : Hitachi 270-30 Infrared Spectrometer

Cell : KBr Liquid Cell

Slit : Medium



Infrared Spectrum of Test Substance

Results: The infrared spectrum was consistent with literature spectrum.

<u>Determined Values</u>	<u>Literature Values*</u>
Wave Number(cm^{-1})	Wave Number(cm^{-1})
430~480	
650~840	650~850
870~940	870~940
970~1000	970~1000
1120~1180	1130~1180
1200~1340	1200~1350
1370~1500	1380~1500
1530~1570	1540~1570
1580~1630	1580~1630
2040~2090	2050~2090
2100~2190	2120~2190
2250~2360	2280~2370
2380~2460	2400~2460
2500~2550	2500~2560
2650~2730	2650~2730
2800~2860	2800~2860
2900~3200	2900~3200
3650~3730	3670~3750
3730~3800	3750~3800
3900~4000	3900~4000

(*Performed by the WAKO PURE CHEMICAL INDUSTRIES, LTD.)

2. Conclusions: The test substance was identified as dichloromethane, by the mass spectrum and the infrared spectrum.

APPENDIX I 2

STABILITY OF DICHLOROMETHANE IN THE 2-WEEK INHALATION STUDY

CONCENTRATION OF DICHLOROMETHANE IN INHALATION CHAMBER

Group Name	Concentration(ppm) Mean \pm S.D.
Control	0.0 \pm 0.0
1,000ppm	1,007.8 \pm 12.6
2,000ppm	2,010.3 \pm 13.8
4,000ppm	4,027.3 \pm 29.8
8,000ppm	7,955.6 \pm 149.2
16,000ppm	16,014.1 \pm 113.9

APPENDIX J 1

CONCENTRATION OF DICHLOROMETHANE IN THE
INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

STABILITY OF DICHLOROMETHANE IN THE 2-WEEK INHALATION STUDY

Lot No. APR5259

1. Sample: This lot was used from 1993.4.27 to 1993.5.10. Test substance was stored in a dark place at room temperature.

2. Infrared Spectrometry

Instrument : Hitachi 270-30 Infrared Spectrometer

Cell : KBr Liquid Cell

Slit : Medium

Results: The result of infrared spectrum did not change when before and after the lot of study.

<u>1993.04.07(date analyzed)</u>	<u>1993.05.12(date analyzed)</u>
Wave Number(cm^{-1})	Wave Number(cm^{-1})
430~480	430~480
650~840	650~840
870~940	870~940
970~1000	970~1000
1120~1180	1120~1180
1200~1340	1200~1340
1370~1500	1370~1500
1530~1570	1530~1570
1580~1630	1580~1630
2040~2090	2040~2090
2100~2190	2100~2190
2250~2360	2250~2360
2380~2460	2380~2460
2500~2550	2500~2550
2650~2730	2650~2730
2800~2860	2800~2860
2900~3200	2900~3200
3650~3730	3650~3730
3730~3800	3730~3800
3900~4000	3900~4000

3. Gas Chromatography

Instrument : Hewlett Packard 5890A Gas Chromatograph

Column : Methyl Silicone(0.2 mm ϕ \times 50 m)

Column Temperature : 60 °C

Flow Rate : 1 ml/min

Detector : FID(Flame Ionization Detector)

Injection Volume : 1 μ l

Results: Gas chromatography indicated one major peak (peak No.1) and one impurity (peak No.2 < 1% of total area) analyzed at 1993.4.7 and one major peak (peak No.1) and one impurity (peak No.2 < 1% of total area) analyzed at 1993.5.12. No new trace impurity peak in the test substance analyzed at 1993.5.12 was detected.

Date (date analyzed)	Peak No.	Retention Time(min)	Area Count
1993.04.07	1	3.303	65203
	2	3.41	8
1993.05.12	1	3.305	64019
	2	3.407	10

4. Conclusions: The test substance was stable for about 5 weeks in a dark place at room temperature.

APPENDIX J 2

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER
IN THE 2-WEEK INHALATION STUDY OF DICHLOROMETHANE

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 2-WEEK INHALATION STUDY OF DICHLOROMETHANE

Group Name	Temperature(°C) Mean ± S.D.	Humidity(%) Mean ± S.D.	Ventilation Rate(L/min) Mean ± S.D.	Room Air Change(time/h) Mean
Control	21.9 ± 0.1	55.2 ± 0.6	103.8 ± 0.9	12.0
1,000ppm	21.9 ± 0.1	58.1 ± 0.6	103.9 ± 0.8	12.0
2,000ppm	21.6 ± 0.1	56.6 ± 0.5	103.1 ± 0.8	11.9
4,000ppm	21.8 ± 0.1	55.4 ± 0.4	104.6 ± 0.9	12.1
8,000ppm	22.8 ± 0.2	53.9 ± 0.6	104.1 ± 1.0	12.0
16,000ppm	21.6 ± 0.2	53.8 ± 0.9	104.3 ± 1.0	12.0

APPENDIX K 1

METHODS FOR HEMATOLOGY AND BIOCHEMISTRY IN THE
2-WEEK INHALATION STUDY OF DICHLOROMETHANE

METHODS FOR HEMATOLOGY AND BIOCHEMISTRY IN THE
2-WEEK INHALATION STUDY OF DICHLOROMETHANE

Item	Method
Hematology	
Red blood cell (RBC)	Light scattering method ¹⁾
Hemoglobin (Hgb)	Cyanmethemoglobin method ¹⁾
Hematocrit (Hct)	Calculated as $RBC \times MCV/10$ ¹⁾
Mean corpuscular volume (MCV)	Light scattering method ¹⁾
Mean corpuscular hemoglobin (MCH)	Calculated as $Hgb/RBC \times 10$ ¹⁾
Mean corpuscular hemoglobin concentration (MCHC)	Calculated as $Hgb/Hct \times 100$ ¹⁾
Platelet	Light scattering method ¹⁾
White blood cell (WBC)	Light scattering method ¹⁾
Differential WBC	Pattern recognition method ²⁾ (May-Grunwald-Giemsa staining)
Biochemistry	
Total protein (TP)	Biuret method ³⁾
Albumin (Alb)	BCG method ³⁾
A/G ratio	Calculated as $Alb/(TP - Alb)$ ³⁾
T-bilirubin	Michaelson method ³⁾
Glucose	Enzymatic method (HK·G-6-PDH) ³⁾
T-cholesterol	Enzymatic method (CEH·COD·POD) ³⁾
Glutamic oxaloacetic transaminase (GOT)	UV-Rate method ³⁾
Glutamic pyruvic transaminase (GPT)	UV-Rate method ³⁾
Lactate dehydrogenase (LDH)	UV-Rate method ³⁾
Creatine phosphokinase (CPK)	UV-Rate method ³⁾
Urea nitrogen	Enzymatic method (Urease·GLDH) ³⁾
Sodium	Flame photometry ⁴⁾
Potassium	Flame photometry ⁴⁾
Chloride	Coulometric titration ⁴⁾
Calcium	OCPC method ³⁾
Inorganic phosphorus	Enzymatic method (SPL·PGM·G-6-PDH) ³⁾

1) Automatic blood cell analyzer (Technicon H-1 : Technicon Instruments Corporation, USA)

2) Automatic blood cell differential analyzer (Hitachi 8200 : Hitachi, Ltd., Japan)

3) Automatic analyzer (Hitachi 705 : Hitachi, Ltd., Japan)

4) Flame photometer (Hitachi 750 : Hitachi, Ltd., Japan)

APPENDIX K 2

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND
BIOCHEMISTRY IN THE 2-WEEK INHALATION STUDY OF DICHLOROMETHANE

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE
2- WEEK INHALATION STUDY OF DICHLOROMETHANE

Item	Unit	Decimal place
Hematology		
Red blood cell (RBC)	$\times 10^6 / \mu L$	2
Hemoglobin	g/dL	1
Hematocrit	%	1
Mean corpuscular volume (MCV)	fL	1
Mean corpuscular hemoglobin (MCH)	pg	1
Mean corpuscular hemoglobin concentration (MCHC)	g/dL	1
Platelet	$\times 10^3 / \mu L$	0
White blood cell (WBC)	$\times 10^3 / \mu L$	2
Differential WBC	%	0
Biochemistry		
Total protein	g/dL	1
Albumin	g/dL	1
A/G ratio	-	1
T-bilirubin	mg/dL	2
Glucose	mg/dL	0
T-cholesterol	mg/dL	0
Glutamic oxaloacetic transaminase (GOT)	IU/L	0
Glutamic pyruvic transaminase (GPT)	IU/L	0
Lactate dehydrogenase (LDH)	IU/L	0
Creatine phosphokinase (CPK)	IU/L	0
Urea nitrogen	mg/dL	1
Sodium	mEq/L	0
Potassium	mEq/L	1
Chloride	mEq/L	0
Calcium	mg/dL	1
Inorganic phosphorus	mg/dL	1