

m-フェニレンジアミン=二塩酸塩の
ラット及びマウスを用いた
経口によるがん原性試験結果報告書

付 録

(IV-1～IV-12 ; 表)

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付録表Ⅳ－１

血液学的検査・総括表
(ラット・１３週間試験)

付録表IV-1

血液学的検査・総括表
(ラット・13週間試験)

TABLE	HEMATOLOGY (1)
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STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	RBC (10 ⁶ /CMM)	HEMOGLOBIN (G/DL)	HEMATOCRIT (%)	MCV (FL)	PLATELET (10 ³ /CMM)
MALE	0	10	9.70 ± 0.28	16.1 ± 0.5	45.4 ± 1.1	46.8 ± 0.6	848 ± 52
	62.5	10	9.72 ± 0.47	16.0 ± 0.6	45.5 ± 2.1	46.8 ± 0.8	809 ± 78
	125	10	9.75 ± 0.43	16.1 ± 0.6	45.4 ± 2.1	46.5 ± 0.5	839 ± 41
	250	10	9.51 ± 0.44	15.8 ± 0.6	44.6 ± 2.0	46.9 ± 0.5	803 ± 72
	500	10	9.28 ± 0.46*	15.7 ± 0.5	44.2 ± 2.0	47.6 ± 0.7*	799 ± 60
	1000	10	9.32 ± 0.43*	16.0 ± 0.8	45.3 ± 2.3	48.6 ± 0.8**	760 ± 57**
FEMALE	0	10	8.64 ± 0.24	15.7 ± 0.4	44.0 ± 1.3	50.9 ± 0.6	846 ± 108
	62.5	10	8.83 ± 0.46	15.9 ± 0.7	44.6 ± 2.0	51.1 ± 0.7	852 ± 162
	125	10	8.58 ± 0.35	15.5 ± 0.6	43.8 ± 2.0	51.1 ± 0.7	884 ± 54
	250	10	8.41 ± 0.31	15.2 ± 0.6*	42.8 ± 1.6	50.9 ± 0.6	866 ± 79
	500	10	8.39 ± 0.36	15.2 ± 0.6	42.9 ± 2.1	51.1 ± 0.7	798 ± 45
	1000	10	8.52 ± 0.33	15.3 ± 0.4	43.4 ± 1.7	51.5 ± 0.5*	712 ± 42**

SIGNIFICANT DIFFERENCE: * : P≤0.05 ** : P≤0.01 *** : P≤0.001

TABLE	HEMATOLOGY (2)
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STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	WBC (10 ³ /CMM)	DIFFERENTIAL N-SEG	WBC (%) N-BAND	LYMPHO	MONO	EOSINO	BASO	OTHRFS
MALE	0	10	3.7 ± 1.2	16 ± 3	0 ± 0	81 ± 4	2 ± 1	1 ± 1	0 ± 0	0 ± 0
	62.5	10	3.7 ± 1.1	17 ± 5	0 ± 0	79 ± 5	2 ± 1	1 ± 1	0 ± 0	0 ± 0
	125	10	3.8 ± 1.0	15 ± 3	0 ± 0	82 ± 4	2 ± 1	1 ± 1	0 ± 0	0 ± 0
	250	10	3.5 ± 1.1	16 ± 4	0 ± 0	80 ± 5	3 ± 1	1 ± 1	0 ± 0	0 ± 0
	500	10	3.4 ± 0.9	16 ± 2	0 ± 0	81 ± 3	2 ± 1	1 ± 1	0 ± 0	0 ± 0
	1000	10	3.9 ± 0.5	16 ± 5	0 ± 0	81 ± 5	2 ± 1	1 ± 1	0 ± 0	0 ± 0
FEMALE	0	10	3.2 ± 0.9	16 ± 4	0 ± 0	82 ± 4	2 ± 1	1 ± 1	0 ± 0	0 ± 0
	62.5	10	2.8 ± 0.7	16 ± 5	0 ± 0	81 ± 6	3 ± 1	1 ± 1	0 ± 0	0 ± 0
	125	10	3.2 ± 1.4	15 ± 5	0 ± 0	81 ± 5	3 ± 1	1 ± 1	0 ± 0	0 ± 0
	250	10	3.7 ± 1.9	13 ± 4	0 ± 0	84 ± 4	2 ± 1	1 ± 1	0 ± 0	0 ± 0
	500	10	3.3 ± 1.1	13 ± 3	0 ± 0	84 ± 3	3 ± 1	1 ± 1	0 ± 0	0 ± 0
	1000	10	2.8 ± 0.9	14 ± 4	0 ± 0	82 ± 4	3 ± 1	1 ± 0	0 ± 0	0 ± 0

SIGNIFICANT DIFFERENCE; #: $P \leq 0.05$ ##: $P \leq 0.01$ ###: $P \leq 0.001$

付録表Ⅳ－２

血液生化学的検査・総括表
(ラット・１３週間試験)

付録表Ⅳ-2 血液生化学的検査・総括表
(ラット・13週間試験)

TABLE BIOCHEMISTRY (1)

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TOTAL PROTEIN (G/DL)	ALBUMIN (G/DL)	A/G RATIO	T-BILIRUBIN (MG/DL)	GLUCOSE (MG/DL)	T-CHOLESTEROL (MG/DL)
MALE	0	10	7.0 ± 0.2	3.7 ± 0.1	1.1 ± 0.1	0.16 ± 0.08	179 ± 19	51 ± 5
	62.5	10	7.0 ± 0.2	3.7 ± 0.1	1.1 ± 0.1	0.15 ± 0.06	174 ± 17	54 ± 4
	125	10	7.0 ± 0.2	3.7 ± 0.1	1.1 ± 0.1	0.14 ± 0.06	179 ± 15	55 ± 5
	250	10	6.9 ± 0.1	3.7 ± 0.1	1.2 ± 0.0	0.16 ± 0.07	187 ± 14	56 ± 6
	500	10	6.7 ± 0.2**	3.6 ± 0.1*	1.2 ± 0.0	0.14 ± 0.06	184 ± 23	60 ± 6**
	1000	10	6.6 ± 0.3***	3.6 ± 0.1*	1.2 ± 0.1	0.15 ± 0.06	171 ± 18	61 ± 5***
FEMALE	0	10	6.8 ± 0.3	3.6 ± 0.1	1.1 ± 0.1	0.15 ± 0.06	136 ± 22	81 ± 7
	62.5	10	6.8 ± 0.2	3.6 ± 0.2	1.1 ± 0.1	0.15 ± 0.06	136 ± 23	80 ± 6
	125	10	6.8 ± 0.3	3.6 ± 0.2	1.1 ± 0.1	0.15 ± 0.05	140 ± 13	81 ± 7
	250	10	6.6 ± 0.2	3.5 ± 0.1	1.1 ± 0.1	0.17 ± 0.06	143 ± 18	76 ± 9
	500	10	6.3 ± 0.2***	3.4 ± 0.1**	1.2 ± 0.1*	0.16 ± 0.05	133 ± 16	71 ± 8**
	1000	10	5.8 ± 0.2***	3.2 ± 0.1***	1.3 ± 0.1***	0.17 ± 0.05	109 ± 18**	54 ± 3***
SIGNIFICANT DIFFERENCE; *: P≤0.05 **: P≤0.01 ***: P≤0.001								

TABLE BIOCHEMISTRY (1)

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TRIGLYCERIDES (MG/DL)
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MALE	0	10	76 ± 13
	62.5	10	78 ± 14
	125	10	81 ± 11
	250	10	90 ± 27
	500	10	82 ± 18
	1000	10	66 ± 12

FEMALE	0	10	42 ± 7
	62.5	10	39 ± 8
	125	10	42 ± 6
	250	10	40 ± 7
	500	10	38 ± 5
	1000	10	36 ± 6*

SIGNIFICANT DIFFERENCE; * : $P \leq 0.05$ ** : $P \leq 0.01$ *** : $P \leq 0.001$

TABLE BIOCHEMISTRY (2)

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	GOT (IU/L 37°C)		GPT (IU/L 37°C)		LDH (IU/L 37°C)		AL-P (IU/L 37°C)		LAP (IU/L 37°C)		CPK (IU/L 37°C)	
MALE	0	10	85 ±	15	28 ±	4	431 ±	100	216 ±	16	52 ±	1	177 ±	31
	62.5	10	86 ±	18	29 ±	6	440 ±	154	220 ±	13	52 ±	2	172 ±	42
	125	10	86 ±	18	29 ±	7	390 ±	103	227 ±	16	52 ±	2	160 ±	27
	250	10	87 ±	25	30 ±	9	385 ±	77	219 ±	15	51 ±	2	164 ±	16
	500	10	77 ±	11	25 ±	3	345 ±	83	211 ±	11	50 ±	2*	152 ±	25
	1000	10	71 ±	9*	21 ±	2**	344 ±	46*	214 ±	14	52 ±	2	149 ±	21*
FEMALE	0	10	70 ±	10	20 ±	4	431 ±	87	159 ±	18	52 ±	2	170 ±	30
	62.5	10	72 ±	5	20 ±	4	431 ±	95	159 ±	19	52 ±	2	168 ±	20
	125	10	71 ±	11	20 ±	5	414 ±	77	157 ±	21	52 ±	3	170 ±	31
	250	10	68 ±	9	18 ±	2	420 ±	99	159 ±	14	51 ±	2	169 ±	27
	500	10	68 ±	12	17 ±	3	432 ±	81	154 ±	14	51 ±	3	165 ±	26
	1000	10	75 ±	8	18 ±	3	384 ±	94	184 ±	21*	58 ±	2**	156 ±	37

SIGNIFICANT DIFFERENCE; *: P<0.05 **: P<0.01 ***: P<0.001

TABLE BIOCHEMISTRY (3)

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BUN (MG/DL)	CREATININE (MG/DL)	SODIUM (MEQ/L)	POTASSIUM (MEQ/L)	CHLORIDE (MEQ/L)	CALCIUM (MG/DL)
MALE	0	10	18.2 ± 0.7	0.5 ± 0.1	148 ± 1	3.4 ± 0.2	107 ± 2	10.2 ± 0.3
	62.5	10	17.9 ± 1.1	0.5 ± 0.1	148 ± 2	3.5 ± 0.2	107 ± 3	10.2 ± 0.2
	125	10	19.1 ± 1.7	0.5 ± 0.1	147 ± 2	3.8 ± 0.9	107 ± 3	10.2 ± 0.2
	250	10	18.8 ± 1.1	0.5 ± 0.1	147 ± 2*	3.5 ± 0.2	107 ± 2	10.2 ± 0.3
	500	10	18.9 ± 1.3	0.5 ± 0.1	146 ± 3*	3.6 ± 0.2	106 ± 2	10.0 ± 0.2
	1000	10	19.5 ± 2.1	0.4 ± 0.1	145 ± 3**	3.6 ± 0.2	106 ± 2	9.9 ± 0.3*
FEMALE	0	10	19.1 ± 1.7	0.5 ± 0.1	145 ± 3	3.4 ± 0.2	108 ± 3	10.0 ± 0.2
	62.5	10	18.7 ± 1.0	0.5 ± 0.1	146 ± 3	3.4 ± 0.3	108 ± 3	9.9 ± 0.3
	125	10	18.6 ± 1.2	0.5 ± 0.1	146 ± 2	3.3 ± 0.1	108 ± 2	9.9 ± 0.3
	250	10	18.8 ± 1.8	0.5 ± 0.1	145 ± 4	3.4 ± 0.3	107 ± 3	9.7 ± 0.3*
	500	10	21.0 ± 4.8	0.4 ± 0.0	143 ± 2	3.5 ± 0.2	107 ± 2	9.5 ± 0.2***
	1000	10	21.0 ± 1.8*	0.4 ± 0.1	144 ± 4	3.5 ± 0.3	107 ± 3	9.4 ± 0.4***
SIGNIFICANT DIFFERENCE: *: P≤0.05 **: P≤0.01 ***: P≤0.001								

TABLE BIOCHEMISTRY (3)

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	I-PHOSPHORUS (MG/DL)
MALE	0	10	5.7 ± 0.6
	62.5	10	5.7 ± 0.6
	125	10	6.1 ± 0.5
	250	10	5.8 ± 0.4
	500	10	6.1 ± 0.4
	1000	10	6.1 ± 0.7
FEMALE	0	10	5.3 ± 0.8
	62.5	10	5.3 ± 0.6
	125	10	5.3 ± 0.7
	250	10	5.3 ± 1.0
	500	10	5.7 ± 0.6
	1000	10	6.0 ± 0.7
SIGNIFICANT DIFFERENCE; *: P≤0.05 **: P≤0.01 ***: P≤0.001			

付録表Ⅳ－３

尿検査・総括表

（ラット・１３週間試験）

付録表Ⅳ－3

尿検査・総括表

(ラット・13週間試験)

TABLE URINARYSIS

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL ()	NO. OF ANIMALS	PH							PROTEIN						GLUCOSE						KETONES			
			5.0	6.0	6.5	7.0	7.5	8.0	8.5	-	±	+	2+	3+	4+	-	±	+	2+	3+	4+	-	+	2+	3+
MALE	0	10						9	1				2	7	1	10						6	4		
	62.5	10						8	2				5	4	1	10						5	5		
	125	10						10						6	4	10						5	5		
	250	10						10					1	6	3	10						4	6		
	500	10			2		5	3						2	4	4	10						10		
	1000	10			3	2	3	2						1	1	8	10						10		
FEMALE	0	10			1		3	6					1	5	3	1	10					4	6		
	62.5	10				1		7	2				5	4	1		10					6	4		
	125	10				2	3	2	3				4	4	1	1	10					5	5		
	250	10			4		4	2					2	4	4		10					1	9		
	500	10		1	5	2	2								4	6	10					2	8		
	1000	10			7	3									5	4	1	10				2	8		

TABLE URINARYSIS

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL ()	NO. OF ANIMALS	BILIRUBIN				BLOOD					NITRITE		UROBILINOGEN				
			-	+	2+	3+	-	±	+	2+	3+	-	+	±	+	2+	3+	4+
MALE	0	10	10				7	3				10		10				
	62.5	10	10				6	4				10		10				
	125	10	10				4	6				10		10				
	250	10	10				5	5				10		10				
	500	10	10				4	6				10		10				
	1000	10	10				2	8				10		10				
FEMALE	0	10	10				8	2				10		10				
	62.5	10	10				9	1				10		10				
	125	10	10				8	2				10		10				
	250	10	10				8	2				10		10				
	500	10	10				9		1			10		10				
	1000	10	10				8	2				10		10				

付録表Ⅳ－４

血液学的検査・総括表
(ラット・がん原性試験)

付録表IV-4

血液学的検査・総括表
(ラット・癌原性試験)

TABLE	HEMATOLOGY (1)
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STUDY NO. : 0059

WEEK: 104

[illegible]

TABLE	HEMATOLOGY (2)
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STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	WBC (10 ³ /CMM)	DIFFERENTIAL N-SEG	WBC (%) N-BAND	LYMPHO	MONO	EOSINO	BASO	OTHERS
MALE	CONTROL	41	5.4 ± 2.5	55 ± 9	0 ± 1	35 ± 8	6 ± 2	1 ± 1	0 ± 0	2 ± 2
	64	42	9.0 ± 15.8	55 ± 16	0 ± 1	34 ± 12	6 ± 3	1 ± 1	0 ± 0	4 ± 10
	160	42	10.3 ± 26.9	52 ± 15	1 ± 1	37 ± 13	6 ± 2	1 ± 1	0 ± 0	3 ± 7
	400	37	6.0 ± 1.7	58 ± 10	0 ± 1	33 ± 9	6 ± 2	1 ± 1	0 ± 0	2 ± 1
FEMALE	CONTROL	41	9.1 ± 27.5	50 ± 15	1 ± 3	39 ± 13	5 ± 2	1 ± 1	0 ± 0	3 ± 9
	64	39	15.2 ± 50.7	46 ± 14	1 ± 1	42 ± 10	5 ± 2	1 ± 1	0 ± 0	5 ± 12
	160	40	5.7 ± 10.4	50 ± 13	1 ± 1	40 ± 12	5 ± 2	1 ± 1	0 ± 0	3 ± 8
	400	42	5.4 ± 6.6	54 ± 14	1 ± 1	35 ± 12	6 ± 2	1 ± 1	0 ± 0	4 ± 8

SIGNIFICANT DIFFERENCE: #: P≤0.05 ##: P≤0.01 ###: P≤0.001

付録表Ⅳ－5

血液生化学的検査・総括表
(ラット・がん原性試験)

付録表IV-5

血液生化学的検査・総括表

(ラット・癌原性試験)

TABLE BIOCHEMISTRY (1)

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TOTAL PROTEIN (G/DL)	ALBUMIN (G/DL)	A/G RATIO	T-BILIRUBIN (MG/DL)	GLUCOSE (MG/DL)	T-CHOLESTEROL (MG/DL)
MALE	CONTROL	41	7.0 ± 0.5	3.1 ± 0.3	0.8 ± 0.1	0.26 ± 0.14	157 ± 29	208 ± 59
	64	42	6.9 ± 0.5	3.0 ± 0.3	0.8 ± 0.1	0.24 ± 0.09	148 ± 30	211 ± 67
	160	42	6.8 ± 0.4	3.0 ± 0.2	0.8 ± 0.1	0.26 ± 0.18	153 ± 20	194 ± 62
	400	37	6.8 ± 0.5	3.0 ± 0.2*	0.8 ± 0.1	0.24 ± 0.08	148 ± 26	215 ± 79
FEMALE	CONTROL	41	7.0 ± 0.4	3.5 ± 0.3	1.0 ± 0.1	0.26 ± 0.19	154 ± 15	159 ± 48
	64	39	7.0 ± 0.7	3.4 ± 0.4	1.0 ± 0.1	0.87 ± 3.05	150 ± 26	159 ± 60
	160	40	7.2 ± 0.5	3.5 ± 0.3	1.0 ± 0.1	0.21 ± 0.06	152 ± 21	166 ± 49
	400	42	6.9 ± 0.5	3.2 ± 0.3***	0.9 ± 0.1***	0.26 ± 0.12	141 ± 20**	216 ± 78***

SIGNIFICANT DIFFERENCE; #: $P \leq 0.05$ ##: $P \leq 0.01$ ###: $P \leq 0.001$

TABLE BIOCHEMISTRY (1)

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TRIGLYCERIDES (MG/DL)	PHOSPHOLIPIDS (MG/DL)
MALE	CONTROL	41	235 ± 149	304 ± 97
	64	42	281 ± 220	313 ± 109
	160	42	236 ± 156	287 ± 97
	400	37	269 ± 196	318 ± 126
FEMALE	CONTROL	41	160 ± 93	271 ± 82
	64	39	168 ± 138	285 ± 112
	160	40	186 ± 140	289 ± 90
	400	42	246 ± 224*	356 ± 132***

SIGNIFICANT DIFFERENCE: * : $P \leq 0.05$ ** : $P \leq 0.01$ *** : $P \leq 0.001$

TABLE BIOCHEMISTRY (2)

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	GOT (IU/L 37°C)		GPT (IU/L 37°C)		LDH (IU/L 37°C)		AL-P (IU/L 37°C)		LAP (IU/L 37°C)		GGTP (IU/L 37°C)	
MALE	CONTROL	41	66 ± 37	19 ± 10	172 ± 36	153 ± 76	47 ± 5	4 ± 3						
	64	42	64 ± 39	20 ± 15	205 ± 139	142 ± 54	45 ± 8	4 ± 3						
	160	42	70 ± 73	18 ± 12	188 ± 80	169 ± 100	48 ± 8	4 ± 2						
	400	37	56 ± 36	18 ± 6	166 ± 51	126 ± 42	48 ± 10	4 ± 3						
FEMALE	CONTROL	41	131 ± 130	33 ± 19	268 ± 295	128 ± 75	43 ± 7	2 ± 2						
	64	39	175 ± 299	36 ± 37	513 ± 1698	177 ± 196	41 ± 6	2 ± 3						
	160	40	91 ± 59	25 ± 11*	200 ± 122	107 ± 42	41 ± 8	2 ± 2						
	400	42	102 ± 114	24 ± 15*	213 ± 168	107 ± 62	41 ± 8	3 ± 3						
SIGNIFICANT DIFFERENCE:			*: P≤0.05	** P≤0.01	***: P≤0.001									

TABLE BIOCHEMISTRY (2)

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	CPK (IU/L 37°C)	
MALE	CONTROL	41	70 ±	9
	64	42	90 ±	64
	160	42	79 ±	26*
	400	37	71 ±	15
FEMALE	CONTROL	41	89 ±	90
	64	39	80 ±	35
	160	40	70 ±	16
	400	42	85 ±	57
SIGNIFICANT DIFFERENCE: * : P<0.05 ** : P<0.01 *** : P<0.001				

TABLE BIOCHEMISTRY (3)

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BUN (MG/DL)	CREATININE (MG/DL)	SODIUM (MEQ/L)	POTASSIUM (MEQ/L)	CHLORIDE (MEQ/L)	CALCIUM (MG/DL)
MALE	CONTROL	41	25.5 ± 8.0	0.8 ± 0.2	142 ± 2	3.6 ± 0.3	105 ± 3	10.8 ± 0.5
	64	42	32.6 ± 26.6	0.9 ± 0.5	143 ± 3	3.7 ± 0.4	106 ± 2	10.9 ± 0.7
	160	42	31.3 ± 19.6	0.8 ± 0.4	142 ± 2	3.7 ± 0.4	106 ± 2*	10.9 ± 0.6
	400	37	36.2 ± 16.0**	0.9 ± 0.4**	142 ± 2	3.8 ± 0.4**	106 ± 2	11.0 ± 0.7
FEMALE	CONTROL	41	18.2 ± 7.1	0.5 ± 0.1	142 ± 3	3.6 ± 0.4	105 ± 2	10.6 ± 0.4
	64	39	19.2 ± 7.4	0.5 ± 0.1	141 ± 2	3.8 ± 0.4	105 ± 2	10.6 ± 0.4
	160	40	17.8 ± 2.0	0.5 ± 0.1	141 ± 2	3.6 ± 0.3	105 ± 2	10.6 ± 0.4
	400	42	29.3 ± 25.0**	0.7 ± 0.5**	140 ± 2**	4.0 ± 0.7**	104 ± 2	10.8 ± 0.6*

SIGNIFICANT DIFFERENCE; #: $P \leq 0,05$ ##: $P \leq 0,01$ ###: $P \leq 0,001$

TABLE BIOCHEMISTRY (3)

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	I-PHOSPHORUS (MG/DL)
MALE	CONTROL	41	4.1 ± 0.8
	64	42	4.8 ± 2.8
	160	42	4.5 ± 2.3
	400	37	4.7 ± 1.4*

FEMALE	CONTROL	41	3.7 ± 0.8
	64	39	3.8 ± 0.8
	160	40	3.4 ± 0.8
	400	42	4.7 ± 3.9

SIGNIFICANT DIFFERENCE: * : $P \leq 0.05$ ** : $P \leq 0.01$ *** : $P \leq 0.001$

付録表Ⅳ－6

尿検査・総括表

（ラット・がん原性試験）

付録表IV - 6

尿検査・総括表

(ラット・癌原性試験)

TABLE URINARYSIS

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	PH							PROTEIN						GLUCOSE						KETONES			
			5.0	6.0	6.5	7.0	7.5	8.0	8.5	-	±	+	2+	3+	4+	-	±	+	2+	3+	4+	-	+	2+	3+
MALE	CONTROL	42			3	7	12	16	4					23	19	42						39	3		
	64	43		1	12	8	7	13	2					11	32	43						36	7		
	160	42		3	3	10	17	8	1					36	6	42						38	4		
	400	37			11	8	14	4						28	9	37						33	4		
FEMALE	CONTROL	41			3	4	11	12	11			2	4	20	15	41						36	5		
	64	39		2	9	6	10	9	3					3	24	39						37	2		
	160	41		1	12	8	12	7	1					7	33	41						40		1	
	400	46		3	19	7	10	6	1					7	37	46						46			

TABLE URINARYSIS

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BILIRUBIN__				BLOOD_____					NITRITE		UROBILINOGEN__				
			-	+	2+	3+	-	±	+	2+	3+	-	+	±	+	2+	3+	4+
MALE	CONTROL	42	39	2	1		36	5	1			41	1	42				
	64	43	42			1	40	3				43		43				
	160	42	41	1			32	10				42		38	4			
	400	37	36	1			28	9				37		32	5			
FEMALE	CONTROL	41	41				37	4				41		41				
	64	39	39				33	5	1			39		37	1	1		
	160	41	41				39	2				41		41				
	400	46	46				39	2	3	1	1	46		46				

付録表Ⅳ－ 7

血液学的検査・総括表
(マウス・13週間試験)

付録表Ⅳ-7

血液学的検査・総括表

(マウス・13週間試験)

TABLE	HEMATOLOGY (1)
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STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	RBC (10 ⁶ /CMM)	HEMOGLOBIN (G/DL)	HEMATOCRIT (%)	MCV (FL)	PLATELET (10 ³ /CMM)
MALE	0	9	11.41 ± 0.32	15.3 ± 0.4	48.6 ± 1.9	42.5 ± 0.7	1254 ± 284
	24.7	7	11.10 ± 0.39	14.9 ± 0.5	47.7 ± 1.6	42.9 ± 0.4	1337 ± 123
	74.1	9	11.14 ± 0.42	15.1 ± 0.4	47.9 ± 1.6	43.0 ± 0.3	1369 ± 153
	222	10	11.13 ± 0.36	15.1 ± 0.4	47.7 ± 1.6	42.8 ± 0.5	1261 ± 163
	667	9	10.74 ± 0.73*	14.2 ± 1.0*	45.2 ± 3.5*	42.0 ± 0.7	1417 ± 154
	2000	3	9.30 ± 0.25**	12.0 ± 0.4***	38.5 ± 0.9***	41.4 ± 1.2	1461 ± 57
FEMALE	0	9	10.82 ± 0.50	14.8 ± 0.5	46.3 ± 2.0	42.7 ± 0.2	1055 ± 197
	24.7	9	10.70 ± 0.38	14.9 ± 0.4	46.3 ± 1.4	43.2 ± 0.9	1188 ± 83
	74.1	9	10.97 ± 0.45	15.2 ± 0.6	47.3 ± 2.3	43.1 ± 0.6	1073 ± 129
	222	10	10.76 ± 0.46	14.4 ± 0.4	45.0 ± 1.8	41.8 ± 0.4**	1144 ± 158
	667	7	9.24 ± 0.95**	12.2 ± 1.2***	37.9 ± 4.0***	41.0 ± 0.5**	1169 ± 336
	2000	2	7.84 ± 0.83**	10.2 ± 1.3***	32.7 ± 5.1***	41.5 ± 2.1	1150 ± 294

SIGNIFICANT DIFFERENCE: * P ≤ 0.05 ** P ≤ 0.01 *** P ≤ 0.001

TABLE HEMATOLOGY (2)

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	WBC (10 ³ /CMM)	DIFFERENTIAL N-SEG	WBC (%) N-BAND	LYMPHO	MONO	EOSINO	BASO	OTHERS
MALE	0	9	2.2 ± 1.1	13 ± 2	0 ± 0	84 ± 3	2 ± 2	1 ± 1	0 ± 0	0 ± 0
	24.7	7	2.2 ± 0.9	14 ± 3	0 ± 0	84 ± 3	2 ± 2	0 ± 1	0 ± 0	0 ± 0
	74.1	9	1.9 ± 0.4	14 ± 4	0 ± 0	84 ± 3	2 ± 1	0 ± 1	0 ± 0	0 ± 0
	222	10	2.5 ± 0.9	13 ± 3	0 ± 0	84 ± 4	2 ± 1	1 ± 1	0 ± 0	0 ± 0
	667	9	2.4 ± 0.9	16 ± 4	0 ± 0	82 ± 4	1 ± 1	0 ± 1	0 ± 0	0 ± 0
	2000	3	1.9 ± 0.8	17 ± 1	0 ± 0	82 ± 1	1 ± 1	0 ± 0	0 ± 0	0 ± 0
FEMALE	0	9	1.9 ± 0.7	16 ± 4	0 ± 0	83 ± 3	1 ± 1	0 ± 1	0 ± 0	0 ± 0
	24.7	9	1.9 ± 0.6	15 ± 4	0 ± 0	84 ± 4	1 ± 1	0 ± 1	0 ± 0	0 ± 0
	74.1	9	2.5 ± 0.7	15 ± 5	0 ± 0	83 ± 6	2 ± 1	0 ± 0	0 ± 0	0 ± 0
	222	10	1.8 ± 0.9	19 ± 4	0 ± 0	79 ± 4	2 ± 1	0 ± 0	0 ± 0	0 ± 0
	667	7	2.0 ± 0.8	23 ± 5	0 ± 0	76 ± 5	1 ± 1	0 ± 0	0 ± 0	0 ± 0
	2000	2	2.3 ± 0.4	20 ± 13	0 ± 0	79 ± 12	2 ± 1	0 ± 0	0 ± 0	0 ± 0

SIGNIFICANT DIFFERENCE: #: P ≤ 0.05 ##: P ≤ 0.01 ###: P ≤ 0.001

付録表Ⅳ－８

血液生化学的検査・総括表
(マウス・１３週間試験)

付録表IV-8

血液生化学的検査・総括表

(マウス・13週間試験)

TABLE BIOCHEMISTRY (1)

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TOTAL PROTEIN (G/DL)	ALBUMIN (G/DL)	A/G RATIO	T-BILIRUBIN (MG/DL)	GLUCOSE (MG/DL)	T-CHOLESTEROL (MG/DL)
MALE	0	9	5.7 ± 0.2	3.1 ± 0.1	1.2 ± 0.1	0.08 ± 0.02	215 ± 34	100 ± 7
	24.7	7	5.7 ± 0.3	3.1 ± 0.1	1.2 ± 0.1	0.12 ± 0.07	209 ± 21	101 ± 5
	74.1	9	5.8 ± 0.4	3.1 ± 0.2	1.2 ± 0.1	0.07 ± 0.05	204 ± 37	108 ± 8*
	222	10	5.7 ± 0.3	3.1 ± 0.1	1.2 ± 0.1	0.10 ± 0.04	197 ± 24	120 ± 9***
	667	9	5.6 ± 0.2	3.1 ± 0.2	1.3 ± 0.1	0.24 ± 0.10**	201 ± 42	115 ± 8***
	2000	4	5.4 ± 0.2*	3.0 ± 0.1	1.2 ± 0.0	0.31 ± 0.12*	167 ± 25*	140 ± 6***
FEMALE	0	10	5.3 ± 0.3	3.0 ± 0.1	1.3 ± 0.1	0.23 ± 0.10	140 ± 22	81 ± 12
	24.7	10	5.4 ± 0.2	3.1 ± 0.2	1.4 ± 0.1	0.21 ± 0.04	131 ± 14	81 ± 10
	74.1	9	5.5 ± 0.2	3.2 ± 0.2	1.3 ± 0.1	0.25 ± 0.07	136 ± 26	92 ± 13
	222	10	5.6 ± 0.2*	3.2 ± 0.1**	1.3 ± 0.1	0.25 ± 0.08	139 ± 29	97 ± 5**
	667	9	5.3 ± 0.3	3.0 ± 0.1	1.3 ± 0.1	0.36 ± 0.09**	161 ± 26	101 ± 15**
	2000	2	5.2 ± 0.1	2.9 ± 0.0*	1.2 ± 0.1	0.39 ± 0.05	144 ± 16	126 ± 14***

SIGNIFICANT DIFFERENCE: * : P<0.05 ** : P<0.01 *** : P<0.001

TABLE BIOCHEMISTRY (2)

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	GOT (IU/L 37°C)		GPT (IU/L 37°C)		LDH (IU/L 37°C)		AL-P (IU/L 37°C)		LAP (IU/L 37°C)	
MALE	0	9	50 ±	8	13 ±	2	566 ±	92	139 ±	9	39 ±	2
	24.7	7	50 ±	10	13 ±	3	493 ±	142	142 ±	9	38 ±	2
	74.1	9	55 ±	11	14 ±	2	547 ±	163	143 ±	11	38 ±	3
	222	10	102 ±	56*	21 ±	6**	691 ±	312	140 ±	13	40 ±	2
	667	9	111 ±	23**	22 ±	4**	644 ±	183	142 ±	7	36 ±	2*
	2000	4	215 ±	81*	34 ±	9*	1062 ±	608	152 ±	16	37 ±	3
FEMALE	0	10	105 ±	53	21 ±	8	579 ±	233	242 ±	38	39 ±	3
	24.7	10	143 ±	79	22 ±	8	625 ±	263	247 ±	47	41 ±	3
	74.1	9	174 ±	61*	29 ±	7	697 ±	98	243 ±	28	41 ±	2
	222	10	367 ±	156**	53 ±	20**	1177 ±	390**	234 ±	23	42 ±	3*
	667	9	305 ±	123**	50 ±	17**	1123 ±	400**	213 ±	22	40 ±	6
	2000	2	491 ±	462	50 ±	34	4071 ±	4358	162 ±	5*	47 ±	10

SIGNIFICANT DIFFERENCE; *: P<0.05 **: P<0.01 ***: P<0.001

TABLE BIOCHEMISTRY (3)

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BUN (MG/DL)	SODIUM (MEQ/L)	POTASSIUM (MEQ/L)	CHLORIDE (MEQ/L)
MALE	0	9	25.2 ± 2.4	152 ± 2	4.5 ± 0.5	121 ± 1
	24.7	7	23.9 ± 2.1	151 ± 2	4.4 ± 0.6	121 ± 1
	74.1	9	24.0 ± 2.2	154 ± 4	4.6 ± 0.5	123 ± 3
	222	10	22.3 ± 2.1*	153 ± 2	4.3 ± 0.4	121 ± 1
	667	9	20.7 ± 2.1**	154 ± 4	5.0 ± 1.2	122 ± 2
	2000	4	20.0 ± 2.1***	151 ± 2	4.5 ± 0.8	120 ± 1
FEMALE	0	10	22.0 ± 3.8	151 ± 1	4.6 ± 0.6	119 ± 4
	24.7	10	20.2 ± 3.9	153 ± 2	4.5 ± 0.5	121 ± 2
	74.1	9	20.3 ± 2.7	153 ± 4	4.8 ± 0.6	120 ± 2
	222	10	21.8 ± 2.5	153 ± 4	4.7 ± 0.5	121 ± 3
	667	9	22.3 ± 1.7	154 ± 3	4.5 ± 0.9	123 ± 2*
	2000	2	26.1 ± 8.3	154 ± 1	3.9 ± 0.4	119 ± 1

SIGNIFICANT DIFFERENCE: * : P<0.05 ** : P<0.01 *** : P<0.001

付録表Ⅳ－９

尿検査・総括表

（マウス・１３週間試験）

付録表Ⅳ－9

尿検査・総括表

(マウス・13週間試験)

TABLE URINARYSIS

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	PH						PROTEIN						GLUCOSE						KETONES			
			5.0	6.0	6.5	7.0	7.5	8.0	8.5	-	±	+	2+	3+	4+	-	±	+	2+	3+	4+	-	+	2+
MALE	0	10			1	1	4	4				7	2	1		10						7	3	
	24.7	10					3	7		3	7					10					6	4		
	74.1	10				2	1	7		1	6	3				10					3	7		
	222	10				1	5	4				7	2	1		10					5	5		
	667	10		2	6	1	1			1		3	5	1		10					2	8		
	2000	6		2	1	3						1	1	2	2	6					2	4		
FEMALE	0	10		1	3	3	1	2				1	6	2	1	10							10	
	24.7	10				1	8	1				2	6	1	1	10					1	9		
	74.1	10			1	2	4	3					7	3		10							10	
	222	10			4	2	4						1	8	1	10							10	
	667	10		6	3	1						1	3	6		10					9	1		
	2000	2					1	1						2		2							2	

TABLE URINARYSIS

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BLOOD					UROBILINOGEN				
			-	±	+	2+	3+	±	+	2+	3+	4+
MALE	0	10	10					10				
	24.7	10	10					10				
	74.1	10	10					10				
	222	10	10					10				
	667	10	10					8	2			
	2000	6	6					2	4			
FEMALE	0	10	10					10				
	24.7	10	10					9	1			
	74.1	10	10					10				
	222	10	10					10				
	667	10	10					7	3			
	2000	2	2					2				

付録表Ⅳ－１０

血液学的検査・総括表
(マウス・がん原性試験)

付録表Ⅳ-10

血液学的検査・総括表
(マウス・癌原性試験)

TABLE	HEMATOLOGY (1)
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STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	RBC (10 ⁶ /CMM)	HEMOGLOBIN (G/DL)	HEMATOCRIT (%)	MCV (FL)	PLATELET (10 ³ /CMM)
MALE	CONTROL	28	10.19 ± 1.15	14.1 ± 1.4	41.3 ± 4.7	40.5 ± 1.4	1946 ± 445
	20	28	9.16 ± 1.75*	13.1 ± 2.5	37.8 ± 7.4*	41.2 ± 2.4	2028 ± 539
	60	26	9.48 ± 1.76	13.4 ± 2.3	39.2 ± 7.0	41.4 ± 2.3	1893 ± 456
	180	28	9.68 ± 2.08	14.0 ± 2.3	40.6 ± 7.6	42.6 ± 4.9*	1905 ± 409
FEMALE	CONTROL	21	9.15 ± 1.60	13.3 ± 1.9	38.3 ± 5.6	42.2 ± 3.4	1174 ± 437
	20	20	9.60 ± 1.56	13.9 ± 2.1	40.0 ± 6.4	41.6 ± 1.2	1184 ± 429
	60	25	10.11 ± 1.35*	14.6 ± 1.5**	42.3 ± 4.9*	41.9 ± 1.6	1264 ± 395
	180	28	9.97 ± 0.61*	14.6 ± 1.0**	42.0 ± 2.7*	42.1 ± 1.2	1288 ± 369

SIGNIFICANT DIFFERENCE; * : P≤0.05 ** : P≤0.01 *** : P≤0.001

TABLE	HEMATOLOGY (2)
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STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	WBC (10 ³ /CMM)	DIFFERENTIAL N-SEG	WBC (%) N-BAND	LYMPHO	MONO	EOSINO	BASO	OTHERS
MALE	CONTROL	28	3.7 ± 1.9	37 ± 16	2 ± 2	55 ± 18	5 ± 3	1 ± 1	0 ± 0	1 ± 1
	20	28	3.7 ± 3.9	39 ± 17	2 ± 2	53 ± 17	4 ± 3	1 ± 1	0 ± 0	1 ± 1
	60	26	8.0 ± 23.4	39 ± 15	2 ± 3	53 ± 17	4 ± 3	1 ± 1	0 ± 0	1 ± 2
	180	28	4.3 ± 3.5	36 ± 17	2 ± 2	55 ± 19	5 ± 3	1 ± 2	0 ± 0	1 ± 1
FEMALE	CONTROL	21	4.8 ± 9.8	27 ± 14	2 ± 2	63 ± 13	5 ± 3	1 ± 1	0 ± 0	2 ± 3
	20	20	3.1 ± 2.5	32 ± 13	1 ± 2	59 ± 13	5 ± 3	1 ± 1	0 ± 0	1 ± 1
	60	25	10.5 ± 26.4	26 ± 15	2 ± 1	65 ± 16	4 ± 2	1 ± 1	0 ± 0	2 ± 2
	180	28	3.1 ± 1.7	26 ± 9	2 ± 2	66 ± 10	4 ± 2	1 ± 1	0 ± 0	1 ± 2

SIGNIFICANT DIFFERENCE: #: P<0.05 ##: P<0.01 ###: P<0.001

付録表Ⅳ－１１

血液生化学的検査・総括表
(マウス・がん原性試験)

付録表IV-11

血液生化学的検査・総括表

(マウス・癌原性試験)

TABLE BIOCHEMISTRY (1)

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TOTAL PROTEIN (G/DL)	ALBUMIN (G/DL)	A/G RATIO	T-BILIRUBIN (MG/DL)	GLUCOSE (MG/DL)	T-CHOLESTEROL (MG/DL)
MALE	CONTROL	28	5.6 ± 0.5	2.8 ± 0.4	1.1 ± 0.2	0.26 ± 0.10	188 ± 36	110 ± 24
	20	28	5.7 ± 0.8	2.9 ± 0.4	1.0 ± 0.2	0.26 ± 0.14	193 ± 35	121 ± 39
	60	24	5.7 ± 0.7	2.8 ± 0.5	1.0 ± 0.2	0.26 ± 0.09	160 ± 54*	118 ± 34
	180	25	5.5 ± 0.5	2.8 ± 0.3	1.1 ± 0.1	0.28 ± 0.14	167 ± 45	115 ± 26
FEMALE	CONTROL	21	5.1 ± 0.6	2.7 ± 0.3	1.1 ± 0.2	0.31 ± 0.19	143 ± 28	69 ± 23
	20	18	5.3 ± 0.3	2.8 ± 0.2	1.1 ± 0.1	0.30 ± 0.12	137 ± 37	76 ± 13
	60	25	5.3 ± 0.5	2.8 ± 0.3	1.1 ± 0.1	0.34 ± 0.10	133 ± 33	78 ± 29
	180	28	5.6 ± 1.4	2.8 ± 0.3	1.1 ± 0.2	0.32 ± 0.12	134 ± 32	82 ± 23

SIGNIFICANT DIFFERENCE; #: $P \leq 0.05$ ##: $P \leq 0.01$ ###: $P \leq 0.001$

TABLE BIOCHEMISTRY (1)

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TRIGLYCERIDES (MG/DL)	PHOSPHOLIPIDS (MG/DL)
MALE	CONTROL	28	72 ± 18	199 ± 41
	20	28	73 ± 24	208 ± 44
	60	24	70 ± 20	205 ± 67
	180	25	75 ± 25	210 ± 53

FEMALE	CONTROL	21	70 ± 16	128 ± 40
	20	18	80 ± 28	134 ± 21
	60	25	73 ± 18	138 ± 50
	180	28	90 ± 25**	153 ± 36*

SIGNIFICANT DIFFERENCE: #: $P \leq 0.05$ **: $P \leq 0.01$ ***: $P \leq 0.001$

TABLE BIOCHEMISTRY (2)

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	GOT (IU/L 37°C)		GPT (IU/L 37°C)		LDH (IU/L 37°C)		AL-P (IU/L 37°C)		LAP (IU/L 37°C)		CPK (IU/L 37°C)	
MALE	CONTROL	28	861 ±	3414	467 ±	2070	2103 ±	7857	190 ±	113	74 ±	40	52 ±	28
	20	28	117 ±	119	54 ±	61	522 ±	505	158 ±	41	66 ±	22	55 ±	33
	60	24	846 ±	3332	201 ±	698	2271 ±	8692	190 ±	113	76 ±	29	68 ±	39
	180	25	169 ±	147	59 ±	68	708 ±	657	215 ±	125	82 ±	57	81 ±	56*
FEMALE	CONTROL	21	117 ±	55	29 ±	15	659 ±	511	200 ±	67	62 ±	12	79 ±	111
	20	18	150 ±	185	37 ±	31	901 ±	2117	249 ±	92	63 ±	10	92 ±	152
	60	25	155 ±	186	35 ±	34	560 ±	485	227 ±	101	64 ±	10	72 ±	38
	180	28	112 ±	68	40 ±	73	689 ±	1563	197 ±	114	62 ±	12	73 ±	25
SIGNIFICANT DIFFERENCES			*: P≤0.05		** : P≤0.01		***: P≤0.001							

TABLE BIOCHEMISTRY (3)

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BUN (MG/DL)	SODIUM (MEQ/L)	POTASSIUM (MEQ/L)	CHLORIDE (MEQ/L)	CALCIUM (MG/DL)	I-PHOSPHORUS (MG/DL)
MALE	CONTROL	28	25.6 ± 9.3	153 ± 2	4.3 ± 0.4	121 ± 3	9.0 ± 0.5	7.0 ± 1.3
	20	28	28.9 ± 31.2	153 ± 5	4.4 ± 0.7	123 ± 4	9.1 ± 0.5	7.3 ± 1.8
	60	24	22.8 ± 8.4	154 ± 3	4.4 ± 0.6	122 ± 3	9.3 ± 0.5	7.3 ± 1.1
	180	25	26.7 ± 20.7	154 ± 3	4.2 ± 0.4	123 ± 4	8.9 ± 0.6	7.6 ± 1.4
FEMALE	CONTROL	21	20.9 ± 11.0	152 ± 2	4.2 ± 0.6	123 ± 3	9.0 ± 0.3	7.2 ± 1.2
	20	18	21.1 ± 16.8	153 ± 2	4.3 ± 0.5	124 ± 2	9.1 ± 0.3	7.0 ± 1.2
	60	25	18.2 ± 5.6	152 ± 2	4.1 ± 0.4	123 ± 3	9.2 ± 0.4	7.2 ± 0.9
	180	28	19.9 ± 5.5	152 ± 4	4.0 ± 0.4	125 ± 3	9.5 ± 0.8*	7.3 ± 1.1

SIGNIFICANT DIFFERENCE) #: $P \leq 0.05$ ##: $P \leq 0.01$ ###: $P \leq 0.001$

付録表Ⅳ－１２

尿検査・総括表

（マウス・がん原性試験）

付録表IV - 1 2

尿検査・総括表
(マウス・癌原性試験)

TABLE

URINARYSIS

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	PH							PROTEIN						GLUCOSE						KETONES			
			5.0	6.0	6.5	7.0	7.5	8.0	8.5	-	±	+	2+	3+	4+	-	±	+	2+	3+	4+	-	+	2+	3+
MALE	CONTROL	33		3	5	7	8	8	2	1	4	21	6	1		33						25	8		
	20	30		1	8	4	5	9	3	1	1	17	9	1	1	30						19	11		
	60	27		1	10	4	9	2	1	2	11	12	2			27						24	3		
	180	29		1	10	7	5	5	1		2	25	2			29						25	4		
FEMALE	CONTROL	24		3	2	4	5	9	1		2	9	13			24						11	13		
	20	21		2	2	4	5	7	1	1	3	7	8	2		21						12	8	1	
	60	27		1	3	4	5	6	8		3	14	8	2		27						23	4		
	180	32		3	6	3	9	7	4		3	11	16	2		32						25	7		

TABLE URINARYSIS

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BLOOD-----					UROBILINOGEN--				
			-	±	+	2+	3+	±	+	2+	3+	4+
MALE	CONTROL	33	28	2	2	1		33				
	20	30	25	1	1	2	1	29	1			
	60	27	25	1			1	27				
	180	29	22	4	2		1	29				
FEMALE	CONTROL	24	22	1	1			24				
	20	21	19	1	1			21				
	60	27	21	4	1		1	26	1			
	180	32	26	5	1			31	1			