

四塩化炭素のラット及びマウスを用いた
吸入によるがん原性試験結果報告書

試験番号:急性 (ラット/0011 ; マウス/0012) 2 週間 (ラット/0013 ; マウス/0014)
13 週間 (ラット/0021 ; マウス/0022) がん原性 (ラット/0043 ; マウス 0044)

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TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0011

SEX : MALE

DOSE LEVEL (PPH)		5293		6087		7000		8050		9258	
NO. OF EXAMINED ANIMALS		0	0	0	0	0	0	6	0	9	0
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
SUBCUTANEOUS TISSUE											
	YELLOWISH	0	0	0	0	0	0	4	0	2	0
WHOLE BODY	YELLOWISH	0	0	0	0	0	0	1	0	0	0
THYMUS	HEMORRHAGE	0	0	0	0	0	0	4	0	1	0
	ATROPHIC	0	0	0	0	0	0	1	0	0	0
	RED PATCH/ZONE	0	0	0	0	0	0	0	0	1	0
LUNG	HYPEREMIA	0	0	0	0	0	0	1	0	0	0
	CONGESTION	0	0	0	0	0	0	3	0	7	0
	ATELECTASIS	0	0	0	0	0	0	0	0	1	0
THORACIC CAVITY											
	FLUID	0	0	0	0	0	0	1	0	0	0
LIVER	CONGESTION	0	0	0	0	0	0	0	0	6	0
	TURBID	0	0	0	0	0	0	1	0	0	0
	REDDISH	0	0	0	0	0	0	1	0	0	0
	YELLOWISH	0	0	0	0	0	0	5	0	3	0
FORESTOMACH											
	HEMORRHAGE	0	0	0	0	0	0	4	0	2	0
	ULCER	0	0	0	0	0	0	1	0	0	0
GLANDULAR STOMACH											
	HEMORRHAGE	0	0	0	0	0	0	4	0	4	0
	FLUID	0	0	0	0	0	0	2	0	4	0
	TURBID	0	0	0	0	0	0	0	0	1	0
	REDDISH	0	0	0	0	0	0	1	0	1	0
PANCREAS	HEMORRHAGE	0	0	0	0	0	0	1	0	0	0
SMALL INTESTINE											
	FLUID	0	0	0	0	0	0	0	0	2	0
ADRENAL	REDDISH	0	0	0	0	0	0	1	0	0	0
	BROWN	0	0	0	0	0	0	0	0	1	0
URINARY BLADDER											
	DILATED	0	0	0	0	0	0	4	0	5	0
	FLUID	0	0	0	0	0	0	0	0	1	0
LYMPH NODE	CONGESTION	0	0	0	0	0	0	1	0	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0011

SEX : MALE

DOSE LEVEL (PPM)		10646	
NO. OF EXAMINED ANIMALS		10	0
ORGAN	FINDINGS	D	M
SUBCUTANEOUS TISSUE			
	YELLOWISH	0	0
WHOLE BODY	YELLOWISH	0	0
THYMUS	HEMORRHAGE	0	0
	ATROPHIC	0	0
	RED PATCH/ZONE	6	0
LUNG	HYPEREMIA	0	0
	CONGESTION	9	0
	ATELECTASIS	1	0
THORACIC CAVITY			
	FLUID	0	0
LIVER	CONGESTION	10	0
	TURBID	0	0
	REDDISH	0	0
	YELLOWISH	0	0
FORESTOMACH			
	HEMORRHAGE	0	0
	ULCER	0	0
GLANDULAR STOMACH			
	HEMORRHAGE	0	0
	FLUID	0	0
	TURBID	2	0
	REDDISH	2	0
PANCREAS	HEMORRHAGE	0	0
SMALL INTESTINE			
	FLUID	0	0
ADRENAL	REDDISH	0	0
	BROWN	0	0
URINARY BLADDER			
	DILATED	8	0
	FLUID	0	0
LYMPH NODE	CONGESTION	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. 1 0011

SEX : FEMALE

DOSE LEVEL (PPM)		5293		6087		7000		8050		9250	
NO. OF EXAMINED ANIMALS		D	M	D	M	D	M	D	M	D	M
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
SUBCUTANEOUS TISSUE											
	YELLOWISH	0	0	0	0	1	0	0	0	4	0
	BROWN	0	0	0	0	0	0	0	0	1	0
THYMUS	HEMORRHAGE	0	0	0	0	1	0	0	0	5	0
	RED PATCH/ZONE	0	0	0	0	0	0	0	0	0	0
LUNG	CONGESTION	0	0	0	0	2	0	0	0	6	0
	ATELECTASIS	0	0	0	0	0	0	0	0	0	0
	REDDISH	0	0	0	0	0	0	0	0	1	0
LIVER	CONGESTION	0	0	0	0	0	0	0	0	1	0
	YELLOWISH	0	0	0	0	2	0	0	0	7	0
	HEMIATION	0	0	0	0	0	0	0	0	1	0
SPLEEN	CONGESTION	0	0	0	0	0	0	0	0	1	0
FORESTOMACH											
	HEMORRHAGE	0	0	0	0	1	0	0	0	5	0
	ULCER	0	0	0	0	0	0	0	0	1	0
GLANDULAR STOMACH											
	HEMORRHAGE	0	0	0	0	2	0	0	0	7	0
	FLUID	0	0	0	0	2	0	0	0	6	0
	TURBID	0	0	0	0	0	0	0	0	0	0
	REDDISH	0	0	0	0	0	0	0	0	3	0
DUODENUM	FLUID	0	0	0	0	0	0	0	0	1	0
JEJUNUM	FLUID	0	0	0	0	0	0	0	0	0	0
URINARY BLADDER											
	DILATED	0	0	0	0	0	0	0	0	0	0
OVARY	CYST	0	0	0	0	0	0	0	0	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0011

SEX : FEMALE

DOSE LEVEL (PPM)		10646	
NO. OF EXAMINED ANIMALS		10	0
ORGAN	FINDINGS	D	M
SUBCUTANEOUS TISSUE			
	YELLOWISH	2	0
	BROWN	0	0
THYMUS	HEMORRHAGE	0	0
	RED PATCH/ZONE	6	0
LUNG	CONGESTION	4	0
	ATELECTASIS	1	0
	REDDISH	0	0
LIVER	CONGESTION	7	0
	YELLOWISH	3	0
	HERNIATION	0	0
SPLEEN	CONGESTION	0	0
FORESTOMACH			
	HEMORRHAGE	1	0
	ULCER	0	0
GLANDULAR STOMACH			
	HEMORRHAGE	3	0
	FLUID	1	0
	TURBID	1	0
	REDDISH	3	0
DUODENUM	FLUID	1	0
JEJUNUM	FLUID	1	0
URINARY BLADDER			
	DILATED	3	0
OVARY	CYST	1	0

D: DEAD M: MORIBUND

表P-2 肉眼所見. 総括表 (ラット. 急性試験. 定期解剖動物)

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0011

SEX : MALE

DOSE LEVEL (PPM)		5293	6007	7000	8050	9250
NO. OF EXAMINED ANIMALS		10	10	10	4	1
ORGAN	FINDINGS					
TAIL	ABSCESS	0	0	0	0	1
THYMUS	HEMORRHAGE	0	0	0	1	0
LUNG	REDDISH	0	0	0	2	0
	RED PATCH/ZONE	1	0	0	0	0
LIVER	SWOLEN	1	0	0	0	0
	TURBID	1	0	0	0	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0011

SEX : MALE

DOSE LEVEL (PPM)		10646
NO. OF EXAMINED ANIMALS		0
ORGAN	FINDINGS	
TAIL	ABSCCESS	0
THYMUS	HEMORRHAGE	0
LUNG	REDDISH	0
	RED PATCH/ZONE	0
LIVER	SWOLEN	0
	TURBID	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0011

SEX : FEMALE

DOSE LEVEL (PPM)		5293	6087	7000	8050	9250
NO. OF EXAMINED ANIMALS		10	10	6	10	2
ORGAN	FINDINGS					
LUNG	RED PATCH/ZONE	0	0	2	0	0
LIVER	HERNIATION	0	1	0	0	0
UTERUS	DILATED LUMEN	0	0	0	0	1

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0011

SEX : FEMALE

DOSE LEVEL (PPM)		10646
NO. OF EXAMINED ANIMALS		0
ORGAN	FINDINGS	
LUNG	RED PATCH/ZONE	0
LIVER	HERNIATION	0
UTERUS	DILATED LUMEN	0

表P-3 病理組織学的所見. 総括表
(ラット. 急性試験. 瀕死. 死亡動物)

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0011

SEX : MALE

DOSE LEVEL (PPM)		5293				6087				7000				8050				9258				
NO. OF EXAMINED ANIMALS		0				0				0				3				2				
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	
BRAIN	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
SPINAL CORD	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
LIVER	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1
	FATTY CHANGE	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0
KIDNEY	DEGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	VASCULAR CHANGE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	0
STOMACH	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	ULCER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
SPLEEN	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
THYMUS	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0
	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
LYMPH NODES	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0
HEART	DILATATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
ADRENAL	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
HARDERIAN GLAND	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1	1	0	0

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0011

SEX : MALE

DOSE LEVEL (PPM)		10646			
NO. OF EXAMINED ANIMALS		?			
ORGAN	FINDINGS	T	1	2	3
BRAIN	HEMORRHAGE	0	0	0	0
SPINAL CORD	HEMORRHAGE	0	0	0	0
LUNG	CONGESTION	0	1	1	0
	HEMORRHAGE	0	0	0	0
LIVER	NECROSIS	0	0	0	0
	FATTY CHANGE	0	0	0	0
	DEGENERATION	0	0	0	2
KIDNEY	VACUOLIC CHANGE	0	0	0	0
STOMACH	HEMORRHAGE	0	1	0	0
	ULCER	0	0	0	0
SPLEEN	KARYORRHEXIS	0	1	0	0
THYMUS	HEMORRHAGE	0	1	1	0
	ATROPHY	0	0	0	0
	KARYORRHEXIS	0	2	0	0
LYMPH NODES	KARYORRHEXIS	0	1	0	0
HEART	HEMORRHAGE	0	0	0	0
	DILATATION	0	0	0	2
ADRENAL	HEMORRHAGE	0	0	0	0
HARDERIAN GLAND	DEPOSIT OF PIGMENT	0	1	0	0

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0011

SEX : FEMALE

DOSE LEVEL (PPM)		5293				6087				7000				8050				9258				
NO. OF EXAMINED ANIMALS		0				0				1				0				3				
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
LIVER	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
	FATTY CHANGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	DEGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
KIDNEY	VACUOLIC CHANGE	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0
STOMACH	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
SPLEEN	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
THYMUS	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1
LYMPH NODES	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
HEART	HEMORRHAGE	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0
	DILATATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARDERIAN GLAND	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0011

SEX : FEMALE

DOSE LEVEL (PPM)		10646			
NO. OF EXAMINED ANIMALS		3			
ORGAN	FINDINGS	T	1	2	3
LUNG	CONGESTION	0	0	0	0
LIVER	NECROSIS	0	0	0	1
	FATTY CHANGE	0	1	0	0
KIDNEY	DEGENERATION	0	0	0	2
	VACUOLIC CHANGE	0	1	0	0
STOMACH	HEMORRHAGE	0	0	0	0
SPLEEN	KARYORRHEXIS	0	2	0	0
THYMUS	HEMORRHAGE	0	0	0	0
	KARYORRHEXIS	0	2	0	1
LYMPH NODES	KARYORRHEXIS	0	0	0	0
	HEMORRHAGE	0	1	0	0
HEART	DILATATION	0	1	0	1
	DEPOSIT OF PIGMENT	0	2	1	0

表P-4 病理組織学的所見. 総括表
(ラット. 急性試験. 定期解剖動物)

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0011

SEX : MALE

DOSE LEVEL (PPM)		10646			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
LIVER	NECROSIS	0	0	0	0
	GRANULATION	0	0	0	0
	MITOSIS	0	0	0	0
KIDNEY	REGENERATION	0	0	0	0
TESTIS	ATROPHY	0	0	0	0
SPLEEN	KARYORRHEXIS	0	0	0	0
THYMUS	HEMORRHAGE	0	0	0	0
	KARYORRHEXIS	0	0	0	0
HARDERIAN GLAND	DEPOSIT OF PIGMENT	0	0	0	0
BONE MARROW	INFLAMMATION	0	0	0	0

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0011

SEX : FEMALE

DOSE LEVEL (PPM)		5293				6087				7000				8050				9258			
NO. OF EXAMINED ANIMALS		3				2				2				2				2			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
LIVER	NECROSIS	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0
	GRANULATION	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	MITOSIS	0	2	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	2	0	0
HARDERIAN GLAND	DEPOSIT OF PIGMENT	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0



TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0011

SEX : FEMALE

DOSE LEVEL (PPM)		10646			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
LIVER	NECROSIS	0	0	0	0
	GRANULATION	0	0	0	0
	MITOSIS	0	0	0	0
HARDERIAN GLAND	DEPOSIT OF PIGMENT	0	0	0	0

表P-5 肉眼所見. 総括表 (ラット. 2週間試験. 死亡 . 瀕死動物)

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0013

SEX : MALE

DOSE LEVEL (PPM)		0		500		1000		2000		4000	
NO. OF EXAMINED ANIMALS		0	0	0	0	0	0	0	0	0	0
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
SALIVARY GLAND											
	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0
THYMUS	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0
LIVER	PALE	0	0	0	0	0	0	0	0	0	0
FORESTOMACH											
	RED PATCH/ZONE	0	0	0	0	0	0	0	0	0	0
GLANDULAR STOMACH											
	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0
	EROSION	0	0	0	0	0	0	0	0	0	0
	FLUID	0	0	0	0	0	0	0	0	0	0
	REDDISH	0	0	0	0	0	0	0	0	0	0
URINARY BLADDER											
	DILATED	0	0	0	0	0	0	0	0	0	0
	FLUID	0	0	0	0	0	0	0	0	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0013

SEX : FEMALE

DOSE LEVEL (PPM)		0		500		1000		2000		4000	
NO. OF EXAMINED ANIMALS		0	0	0	0	0	0	0	0	0	0
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
THYMIUS	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0
LIVER	PALE	0	0	0	0	0	0	0	0	0	0
	YELLOWISH	0	0	0	0	0	0	0	0	0	0
GLANDULAR STOMACH											
	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0
	FLUID	0	0	0	0	0	0	0	0	0	0
	REDDISH	0	0	0	0	0	0	0	0	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0013

SEX : MALE

DOSE LEVEL (PPM)		8000	
NO. OF EXAMINED ANIMALS		10	0
ORGAN	FINDINGS	D	M
SALIVARY GLAND			
	HEMORRHAGE	2	0
THYMUS	HEMORRHAGE	6	0
LUNG	CONGESTION	8	0
LIVER	PALE	10	0
FORESTOMACH			
	RED PATCH/ZONE	1	0
GLANDULAR STOMACH			
	HEMORRHAGE	4	0
	EROSION	1	0
	FLUID	5	0
	REDDISH	5	0
URINARY BLADDER			
	DILATED	9	0
	FLUID	2	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0013

SEX : FEMALE

DOSE LEVEL (PPM)		8000	
NO. OF EXAMINED ANIMALS		10	0
ORGAN	FINDINGS	D	M
THYROID	HEMORRHAGE	8	0
LUNG	CONGESTION	8	0
LIVER	PALE	8	0
	YELLOWISH	2	0
GLANDULAR STOMACH	HEMORRHAGE	7	0
	FLUID	8	0
	REDDISH	6	0

D: DEAD M: MORIBUND

表P-6 肉眼所見，総括表（ラット，2週間試験，定期解剖動物）

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0013

SEX : MALE

DOSE LEVEL (PPM)		0	500	1000	2000	4000
NO. OF EXAMINED ANIMALS		10	10	10	10	10
ORGAN	FINDINGS					
THYROID	ATROPHIC	0	0	0	0	4
LIVER	SWOLEN	0	9	8	9	2
	TURBID	0	10	10	10	8
	REDDISH	0	10	10	10	10
SPLEEN	HERNIATION	0	0	0	0	1
	CONGESTION	0	0	0	0	1

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0013

SEX : FEMALE

DOSE LEVEL (PPM)		0	500	1000	2000	4000
NO. OF EXAMINED ANIMALS		10	10	10	10	10
ORGAN	FINDINGS					
THYMUS	ATROPHIC	0	0	0	2	4
LUNG	HYPEREMIA	0	0	0	1	0
	BLACK PATCH/ZONE	1	0	0	0	0
	COLORED PATCH/ZONE	0	0	0	0	1
LIVER	SWOLLEN	0	4	3	4	5
	TURBID	0	10	10	10	10
	REDDISH	0	10	10	10	10
	HERNIATION	0	0	0	3	1
STOMACH	RED PATCH/ZONE	0	0	0	0	1
FORESTOMACH						
	THICK	0	0	0	0	1
KIDNEY	CONGESTION	0	0	1	0	0
	ENLARGED	0	1	0	0	0
	HYDRONEPHROSIS	0	0	1	0	0
	SMALL	0	1	0	0	0
OVARY	CYST	1	0	0	0	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0013

SEX : MALE

DOSE LEVEL (PPH)		8000
NO. OF EXAMINED ANIMALS		0
ORGAN	FINDINGS	
THYMUS	ATROPHIC	0
LIVER	SWOLEN	0
	TURBID	0
	REDDISH	0
	HERNIATION	0
SPLEEN	CONGESTION	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0013

SEX : FEMALE

DOSE LEVEL (PPM)		0000
NO. OF EXAMINED ANIMALS		0
ORGAN	FINDINGS	
THYMUS	ATROPHIC	0
LUNG	HYPEREMIA	0
	BLACK PATCH/ZONE	0
	COLORED PATCH/ZONE	0
LIVER	SWOLEN	0
	TURBID	0
	REDDISH	0
	HERNIATION	0
STOMACH	RED PATCH/ZONE	0
FORESTOMACH		
	THICK	0
KIDNEY	CONGESTION	0
	ENLARGED	0
	HYDRONEPHROSIS	0
	SMALL	0
OVARY	CYST	0

表P-7 病理組織学的所見. 総括表
(ラット. 2週間試験. 瀕死. 死亡動物)

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0013

SEX : MALE

DOSE LEVEL (PPM)		8000			
NO. OF EXAMINED ANIMALS		2			
ORGAN	FINDINGS	T	1	2	3
LUNG	CONGESTION	0	1	0	1
	HEMORRHAGE	0	1	0	0
LIVER	SWELLING	0	2	0	0
	NECROSIS	0	0	0	2
	FATTY CHANGE	0	0	2	0
KIDNEY	HYDROPIK CHANGE	0	2	0	0
SPLEEN	ATROPHY	0	1	0	0
THYMUS	KARYORRHEXIS	0	0	0	2
HARDERIAN GLAND	DEPOSIT OF PIGMENT	0	0	2	0

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0013

SEX : FEMALE

DOSE LEVEL (PPM)		8000			
NO. OF EXAMINED ANIMALS		3			
ORGAN	FINDINGS	T	1	2	3
LUNG	CONGESTION	0	0	0	3
LIVER	NECROSIS	0	0	0	3
	FATTY CHANGE	0	1	2	0
KIDNEY	HYDROPIIC CHANGE	0	3	0	0
SPLEEN	ATROPHY	0	1	0	0
	KARYORRHEXIS	0	1	0	0
THYMUS	HEMORRHAGE	0	1	1	0
	KARYORRHEXIS	0	0	0	3
HARDERIAN GLAND	DEPOSIT OF PIGMENT	0	0	3	0

表P-8 病理組織学的所見. 総括表
(ラット. 2週間試験. 定期解剖動物)

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0013

SEX : MALE

DOSE LEVEL (PPM)		0				500				1000				2000				4000					
NO. OF EXAMINED ANIMALS		2				2				2				2				3					
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3		
LUNG	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
LIVER	SWELLING	0	0	0	0	0	2	0	0	0	2	0	0	0	0	2	0	0	0	3	0	0	
	NECROSIS	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	2	0	0	0	0	3	0
	FATTY CHANGE	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	2	0	0	1	0	0	
	DEPOSIT OF CEROID	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0	
	GRANULATION	0	0	0	0	0	1	0	0	0	0	2	0	0	0	1	0	0	0	0	1	0	
	FIBROSIS	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	2	0	0	0	0	3	
	MITOSIS	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	1	1	0	0	1	2	
	HYDROPIIC CHANGE	0	0	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	3	0	0	0	
KIDNEY	HYDROPIIC CHANGE	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0013

SEX : MALE

DOSE LEVEL (PPM)		0000			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
LUNG	HEMORRHAGE	0	0	0	0
LIVER	SWELLING	0	0	0	0
	NECROSIS	0	0	0	0
	FATTY CHANGE	0	0	0	0
	DEPOSIT OF CEROID	0	0	0	0
	GRANULATION	0	0	0	0
	FIBROSIS	0	0	0	0
	MITOSIS	0	0	0	0
	HYDROPIIC CHANGE	0	0	0	0
KIDNEY	HYDROPIIC CHANGE	0	0	0	0

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0013

SEX : FEMALE

DOSE LEVEL (PPM)		8000			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
LIVER	SWELLING	0	0	0	0
	NECROSIS	0	0	0	0
	FATTY CHANGE	0	0	0	0
	DEPOSIT OF CEROID	0	0	0	0
	GRANULATION	0	0	0	0
	FIBROSIS	0	0	0	0
	MITOSIS	0	0	0	0
KIDNEY	HYDROPIC CHANGE	0	0	0	0
	DEPOSIT OF CALCIUM	0	0	0	0
	HYDROPIC CHANGE	0	0	0	0
SPLEEN	HYDRONEPHROSIS	0	0	0	0
	KARYORRHEXIS	0	0	0	0
OVARY	CYST	0	0	0	0
HARDERIAN GLAND	DEPOSIT OF PIGMENT	0	0	0	0

表B-1 血液学的検査. 総括表 (ラット. 13週間試験)

TABLE HEMATOLOGY (1)

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	RBC (10 ⁶ /CM ³)	HEMOGLOBIN (G/DL)	HEMATOCRIT (%)	MCV (FL)	MCH (PG)	MCHC (%)
MALE	0	10	10.16 ± 0.28	17.0 ± 0.4	48.1 ± 1.3	47.3 ± 0.4	16.7 ± 0.2	35.4 ± 0.2
	10	10	10.27 ± 0.27	17.1 ± 0.4	48.3 ± 1.5	47.0 ± 0.4	16.6 ± 0.2	35.4 ± 0.6
	30	10	10.36 ± 0.32	16.8 ± 0.5	47.9 ± 1.8	46.2 ± 0.5KK	16.2 ± 0.2KKK	35.0 ± 0.5K
	90	10	10.27 ± 0.20	16.0 ± 0.2KKK	45.9 ± 0.8KKK	44.6 ± 0.5KK	15.5 ± 0.1KKK	34.8 ± 0.4KK
	270	10	10.01 ± 0.36	14.8 ± 0.5KKK	43.1 ± 1.8KKK	43.0 ± 0.8KK	14.7 ± 0.2KKK	34.3 ± 0.6KKK
	810	10	7.92 ± 0.52KK	12.0 ± 0.5KKK	34.7 ± 1.7KKK	43.0 ± 1.3KK	15.2 ± 0.5KKK	34.6 ± 0.5KKK
FEMALE	0	10	9.08 ± 0.32	16.4 ± 0.4	46.0 ± 2.0	50.6 ± 0.7	18.1 ± 0.3	35.8 ± 0.9
	10	10	9.32 ± 0.35	16.8 ± 0.5	47.0 ± 2.1	50.3 ± 0.5	18.0 ± 0.2	35.8 ± 0.8
	30	9	9.67 ± 0.20KK	16.3 ± 0.3	46.8 ± 1.2	48.4 ± 0.8KK	16.9 ± 0.4KKK	34.9 ± 1.2
	90	10	9.26 ± 0.37	15.1 ± 0.6KKK	42.8 ± 1.8KK	46.2 ± 0.6KK	16.2 ± 0.5KKK	35.2 ± 1.1
	270	10	9.06 ± 0.30	14.4 ± 0.4KKK	41.0 ± 1.3KKK	45.2 ± 0.5KK	15.9 ± 0.5KKK	35.1 ± 0.9
	810	10	8.29 ± 0.30KK	12.8 ± 0.8KKK	36.7 ± 1.9KKK	44.3 ± 0.6KK	15.4 ± 0.5KKK	34.7 ± 1.3K

SIGNIFICANT DIFFERENCE: K: P<0.05 KK: P<0.01 KKK: P<0.001

TABLE HEMATOLOGY (2)

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	WBC (10 ³ /CMM)	DIFFERENTIAL N-SEG	WBC (%) N-BAND	LYMPHO	MONO	EOSINO	PLASO	OTHERS
MALE	0	10	6.3 ± 1.4	16 ± 3	0 ± 0	81 ± 3	3 ± 1	1 ± 1	0 ± 0	0 ± 0
	10	10	6.1 ± 1.1	16 ± 3	0 ± 0	82 ± 3	2 ± 1	0 ± 1	0 ± 0	0 ± 0
	30	10	6.3 ± 1.3	17 ± 3	0 ± 0	80 ± 3	3 ± 1	1 ± 0	0 ± 0	0 ± 0
	90	10	5.8 ± 1.1	17 ± 3	0 ± 0	80 ± 3	3 ± 1	1 ± 1	0 ± 0	0 ± 0
	270	10	5.8 ± 1.5	21 ± 4 ^{***}	0 ± 0	74 ± 4 ^{****}	5 ± 2 ^{**}	1 ± 1	0 ± 0	0 ± 0
	810	10	6.4 ± 1.3	25 ± 6 ^{****}	0 ± 0	69 ± 7 ^{****}	5 ± 2 ^{***}	1 ± 1	0 ± 0	0 ± 0
FEMALE	0	10	3.8 ± 1.8	17 ± 4	0 ± 0	81 ± 5	2 ± 1	1 ± 1	0 ± 0	0 ± 0
	10	10	4.5 ± 1.6	14 ± 3	0 ± 0	83 ± 3	2 ± 1	1 ± 1	0 ± 0	0 ± 0
	30	9	3.3 ± 1.6	17 ± 4	0 ± 0	81 ± 4	2 ± 1	1 ± 1	0 ± 0	0 ± 0
	90	10	4.0 ± 1.3	19 ± 4	0 ± 0	78 ± 3	3 ± 1 ^{**}	1 ± 1	0 ± 0	0 ± 0
	270	10	5.0 ± 1.1	19 ± 3	0 ± 0	76 ± 3 ^{**}	4 ± 1 ^{****}	1 ± 1	0 ± 0	0 ± 0
	810	10	5.9 ± 1.6 ^{**}	27 ± 9 ^{***}	0 ± 0	69 ± 9 ^{***}	4 ± 1 ^{****}	1 ± 1	0 ± 0	0 ± 0

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

TABLE HEMATOLOGY (3)

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	PLATELET (10 ⁰⁰⁰ 3/CMM)	MPV (FL)
MALE	0	10	875 ± 42	5.6 ± 0.1
	10	10	855 ± 42	5.6 ± 0.1
	30	10	885 ± 42	5.7 ± 0.2
	90	10	933 ± 54*	5.6 ± 0.2
	270	10	946 ± 162	5.6 ± 0.2
	810	10	630 ± 61***	5.7 ± 0.2
FEMALE	0	10	910 ± 53	5.5 ± 0.3
	10	10	858 ± 86	5.5 ± 0.3
	30	9	902 ± 112	5.5 ± 0.3
	90	10	972 ± 51*	5.5 ± 0.3
	270	10	928 ± 111	5.5 ± 0.2
	810	10	734 ± 196*	5.5 ± 0.3

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

表B-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. : 0020

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	6.9 ± 0.2	3.9 ± 0.1	1.3 ± 0.1	0.14 ± 0.03	178 ± 17	49 ± 5
	10	10	7.0 ± 0.2	3.9 ± 0.1	1.3 ± 0.1	0.14 ± 0.05	175 ± 11	42 ± 3**
	30	10	7.1 ± 0.2	4.0 ± 0.1	1.3 ± 0.1	0.11 ± 0.04	183 ± 12	34 ± 2***
	90	10	6.9 ± 0.2	4.0 ± 0.1**	1.3 ± 0.1	0.14 ± 0.04	174 ± 11	40 ± 4***
	270	10	6.8 ± 0.2	4.0 ± 0.1	1.4 ± 0.1**	0.18 ± 0.05	146 ± 15****	65 ± 18**
	810	10	6.0 ± 0.2****	3.4 ± 0.1****	1.4 ± 0.1	0.48 ± 0.12***	114 ± 10****	92 ± 15****
FEMALE	0	10	6.7 ± 0.2	3.8 ± 0.1	1.3 ± 0.1	0.17 ± 0.05	129 ± 17	69 ± 10
	10	10	6.9 ± 0.2	3.9 ± 0.1	1.3 ± 0.1	0.16 ± 0.05	142 ± 26	71 ± 4
	30	10	7.1 ± 0.2****	4.0 ± 0.2**	1.3 ± 0.1	0.14 ± 0.04	137 ± 30	77 ± 11
	90	10	6.8 ± 0.2	3.9 ± 0.1**	1.4 ± 0.1	0.17 ± 0.05	143 ± 16	80 ± 12*
	270	10	6.7 ± 0.2	3.8 ± 0.1	1.4 ± 0.1	0.25 ± 0.08**	127 ± 10	92 ± 23**
	810	10	6.1 ± 0.4**	3.4 ± 0.2****	1.3 ± 0.1	0.36 ± 0.15**	113 ± 13**	108 ± 25****

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

TABLE BIOCHEMISTRY (1)

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TRIGLYCERIDES (MG/DL)
MALE	0	10	104 ± 22
	10	10	108 ± 25
	30	10	102 ± 27
	90	10	81 ± 20*
	270	10	64 ± 22***
	810	10	127 ± 20*
FEMALE	0	10	43 ± 7
	10	10	50 ± 10
	30	10	42 ± 5
	90	10	37 ± 6*
	270	10	46 ± 11
	810	10	102 ± 36***

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

TABLE BIOCHEMISTRY (2)

STUDY NO. : 0020

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	76 ±	9	25 ±	3	350 ±	90	266 ±	19	54 ±	1	159 ±	43
	10	10	81 ±	20	27 ±	8	353 ±	109	271 ±	16	53 ±	1K	149 ±	28
	30	10	79 ±	10	30 ±	5K	335 ±	95	284 ±	17K	52 ±	2K	160 ±	41
	90	10	118 ±	67	67 ±	59	565 ±	492	294 ±	21KK	62 ±	7KK	169 ±	38
	270	10	459 ±	259KK	303 ±	212KK	739 ±	396K	497 ±	112KK	107 ±	20KK	172 ±	35
	810	10	1465 ±	1470K	465 ±	524K	642 ±	860	1098 ±	105KK	133 ±	36KK	189 ±	37
FEMALE	0	10	65 ±	7	19 ±	3	294 ±	97	183 ±	19	55 ±	3	137 ±	28
	10	10	72 ±	12	25 ±	8	265 ±	76	204 ±	39	55 ±	3	137 ±	25
	30	10	100 ±	21KK	38 ±	11KK	438 ±	165K	196 ±	19	60 ±	5K	177 ±	28KK
	90	10	233 ±	100KK	111 ±	57KK	471 ±	128KK	284 ±	44KK	88 ±	15KK	193 ±	29KK
	270	10	364 ±	126KK	146 ±	61KK	501 ±	215K	427 ±	54KK	119 ±	20KK	192 ±	40KK
	810	10	897 ±	816K	322 ±	278KK	404 ±	148	725 ±	176KK	135 ±	30KK	197 ±	62K

SIGNIFICANT DIFFERENCE: K: P<0.05 KK: P<0.01 KKK: P<0.001

TABLE BIOCHEMISTRY (3)

STUDY NO. : 0020

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	16.1 ± 1.6	0.5 ± 0.1	143 ± 2	3.1 ± 0.4	103 ± 2	10.4 ± 0.3
	10	10	16.3 ± 1.1	0.4 ± 0.1	143 ± 1	3.1 ± 0.2	103 ± 1	10.5 ± 0.3
	30	10	15.8 ± 1.1	0.4 ± 0.1	142 ± 2	3.1 ± 0.2	103 ± 1	10.6 ± 0.2
	90	10	16.6 ± 1.4	0.4 ± 0.1	143 ± 2	3.3 ± 0.3	103 ± 2	10.4 ± 0.3
	270	10	15.1 ± 1.6	0.4 ± 0.1 ^W	143 ± 2	3.7 ± 0.5 ^W	103 ± 2	10.5 ± 0.3
	810	10	11.3 ± 0.8 ^W	0.4 ± 0.1 ^W	143 ± 2	3.6 ± 0.3 ^W	106 ± 2 ^W	10.2 ± 0.3
FEMALE	0	10	15.9 ± 1.3	0.4 ± 0.0	143 ± 1	3.5 ± 1.1	104 ± 2	10.2 ± 0.2
	10	10	15.8 ± 1.0	0.4 ± 0.1	143 ± 2	3.3 ± 0.8	104 ± 1	10.5 ± 0.3
	30	10	16.7 ± 2.7	0.4 ± 0.1	145 ± 2 ^W	3.9 ± 1.3	104 ± 2	10.3 ± 0.4
	90	10	16.7 ± 1.8	0.4 ± 0.1	141 ± 1 ^W	3.4 ± 0.5	104 ± 1	10.3 ± 0.2
	270	10	13.9 ± 2.3 ^W	0.3 ± 0.1 ^W	142 ± 2	3.6 ± 0.5	105 ± 1	10.4 ± 0.4
	810	10	13.4 ± 1.8 ^W	0.3 ± 0.1 ^W	142 ± 2	3.4 ± 0.4	106 ± 2	10.3 ± 0.4

SIGNIFICANT DIFFERENCE: W: P<0.05 W^W: P<0.01 W^WW: P<0.001

TABLE BIOCHEMISTRY (3)

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	I-PHOSPHORUS (MG/DL)
MALE	0	10	5.2 ± 0.7
	10	10	5.3 ± 0.6
	30	10	5.6 ± 0.7
	90	10	5.8 ± 0.6
	270	10	6.1 ± 0.7 ^{**}
	810	10	6.1 ± 0.6 ^{***}
FEMALE	0	10	4.9 ± 1.5
	10	10	5.2 ± 1.1
	30	9	5.2 ± 1.2
	90	10	5.3 ± 0.8
	270	10	5.5 ± 0.9
	810	10	5.9 ± 0.9

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

表U-1 尿検査. 総括表 (ラット. 13週間試験)

TABLE URINARYSIS

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BILIRUBIN				BLOOD				NITRITE		UROBILINOGEN						
			-	+	2+	3+	-	±	+	2+	3+	-	+	±	+	2+	3+	4+	
MALE	0	10	10				10					10							
	10	10	10				10					10							
	30	10	10				10					10							
	90	10	10				10					10							
	270	10	10				10					10							
	810	10	10				3	4	3			10							
FEMALE	0	10	10				10					10							
	10	10	10				10					10							
	30	10	10				10					10							
	90	10	10				10					10							
	270	10	10				10					10							
	810	10	10				5	4	1			10							

表P-9 肉眼所見、総括表（ラット、13週間試験、定期解剖動物）

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0020

SEX : MALE

DOSE LEVEL (PPM)		0	10	30	90	270
NO. OF EXAMINED ANIMALS		10	10	10	10	10
ORGAN	FINDINGS					
THYMUS	REDUCED	1	2	2	3	3
LUNG	ANEMIC	0	0	0	0	0
	ADHESION	1	0	0	0	0
LIVER	ENLARGED	0	0	5	6	7
	GRANULAR	0	0	0	0	5
	NODULE	0	0	0	0	0
	YELLOWISH	1	4	8	10	9
	RED PATCH/ZONE	0	0	0	0	0
SPLEEN	ENLARGED	0	0	0	0	3
KIDNEY	ENLARGED	0	0	0	0	0
	GREEN	0	0	0	3	8
SEMINAL VESICLE	ATROPHIC	0	0	0	0	0
LYMPH NODE	ENLARGED	0	0	0	0	2

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0020

SEX : MALE

DOSE LEVEL (PPM) 810
 NO. OF EXAMINED ANIMALS 10

ORGAN FINDINGS

THYMIUS	REDUCED	4
LUNG	ANEMIC	2
	ADHESION	0
LIVER	ENLARGED	4
	GRAHULAR	10
	NODULE	8
	YELLOWISH	10
	RED PATCH/ZONE	3
SPLEEN	ENLARGED	10
KIDNEY	ENLARGED	1
	GREEN	9
SEMINAL VESICLE		
	ATROPHIC	3
LYMPH NODE	ENLARGED	7

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0020

SEX : FEMALE

DOSE LEVEL (PPM)		0	10	30	90	270
NO. OF EXAMINED ANIMALS		10	10	10	10	10
ORGAN	FINDINGS					
SOFT TISSUE						
THYMUS	NODULE	0	0	0	1	0
	REDUCED	1	0	2	4	5
LUNG	BROWN	0	0	0	1	2
	CONGESTION	0	0	1	0	0
LIVER	CONGESTION	0	0	1	0	0
	ENLARGED	0	0	1	4	4
	GRANULAR	0	0	0	1	10
	NODULE	0	0	0	0	5
	CYST	0	0	0	1	0
	REDDISH	0	1	0	0	0
	YELLOWISH	0	4	8	10	10
	HERNIATION	0	0	1	0	1
SPLEEN	ENLARGED	0	0	0	0	7
	BROWN	0	0	1	0	0
KIDNEY	GRANULAR	0	0	0	0	0
	GREEN	0	1	2	5	8
UTERUS	DILATED LUMEN	3	3	2	5	3
LYMPH NODE	ENLARGED	0	0	0	1	4

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0020

SEX : FEMALE

DOSE LEVEL (PPM)		010
NO. OF EXAMINED ANIMALS		10
ORGAN	FINDINGS	
SOFT TISSUE		
	NODULE	0
THYMUS	REDUCED	4
	BROWN	0
LUNG	CONGESTION	0
LIVER	CONGESTION	0
	ENLARGED	5
	GRANULAR	10
	NODULE	7
	CYST	0
	REDDISH	0
	YELLOWISH	10
	HERNIATION	1
SPLEEN	ENLARGED	10
	BROWN	2
KIDNEY	GRANULAR	1
	GREEN	8
UTERUS	DILATED LUMEN	0
LYMPH NODE	ENLARGED	5

表P-10 臓器重量(実重量)・総括表(ラット・13週間試験)

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)		THYMUS (G)	ADRENAL R (G)	ADRENAL L (G)	TESTIS R (G)
MALE	0	10	301 ±	15	0.239 ± 0.029	0.020 ± 0.004	0.024 ± 0.002	1.390 ± 0.042
	10	10	296 ±	18	0.232 ± 0.041	0.024 ± 0.003 ^W	0.026 ± 0.004	1.404 ± 0.050
	30	10	304 ±	18	0.240 ± 0.040	0.024 ± 0.002	0.026 ± 0.003	1.369 ± 0.045
	90	10	302 ±	23	0.234 ± 0.021	0.025 ± 0.003 ^W	0.027 ± 0.003	1.347 ± 0.059
	270	10	289 ±	25	0.220 ± 0.043	0.023 ± 0.004	0.025 ± 0.003	1.296 ± 0.125 ^W
	810	10	244 ±	18 ^{WWW}	0.192 ± 0.027 ^{WW}	0.024 ± 0.005	0.025 ± 0.003	1.133 ± 0.151 ^{WW}

SIGNIFICANT DIFFERENCE: W: P<0.05 WW: P<0.01 WWW: P<0.001

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TESTIS L (G)	HEART (G)	LUNG R (G)	LUNG L (G)	KIDNEY R (G)
MALE	0	10	1.453 ± 0.046	0.875 ± 0.050	0.612 ± 0.029	0.337 ± 0.017	0.859 ± 0.038
	10	10	1.436 ± 0.042	0.877 ± 0.056	0.604 ± 0.044	0.340 ± 0.018	0.892 ± 0.030 ^W
	30	10	1.425 ± 0.060	0.885 ± 0.042	0.612 ± 0.031	0.350 ± 0.025	0.899 ± 0.046 ^W
	90	10	1.422 ± 0.070	0.873 ± 0.066	0.615 ± 0.041	0.361 ± 0.027 ^W	0.935 ± 0.053 ^{W^W}
	270	10	1.319 ± 0.099 ^{W^W}	0.889 ± 0.063	0.639 ± 0.045	0.367 ± 0.030 ^W	1.027 ± 0.133 ^{W^W}
	810	10	1.206 ± 0.153 ^{W^{W^W}}	0.973 ± 0.093 ^W	0.648 ± 0.038 ^W	0.354 ± 0.037	1.003 ± 0.084 ^{W^W}

SIGNIFICANT DIFFERENCE: W: P<0.05 W^W: P<0.01 W^{W^W}: P<0.001

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (G)	SPLEEN (G)	LIVER (G)	BRAIN (G)
MALE	0	10	0.865 ± 0.034	0.509 ± 0.036	7.345 ± 0.308	1.875 ± 0.034
	10	10	0.913 ± 0.063	0.510 ± 0.032	7.689 ± 0.473	1.867 ± 0.048
	30	10	0.905 ± 0.041K	0.526 ± 0.027	8.788 ± 0.671KKK	1.865 ± 0.048
	90	10	0.952 ± 0.062KK	0.514 ± 0.039	9.882 ± 1.282KKK	1.856 ± 0.051
	270	10	0.990 ± 0.073KKK	0.738 ± 0.189KK	11.311 ± 1.284KKK	1.820 ± 0.058K
	810	10	1.021 ± 0.078KKK	1.286 ± 0.248KKK	10.325 ± 1.521KKK	1.803 ± 0.051KK

SIGNIFICANT DIFFERENCE) K: P<0.05 KK: P<0.01 KKK: P<0.001

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. 1 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)		THYMUS (G)	ADRENAL R (G)	ADRENAL L (G)	OVARY R (G)
FEMALE	0	10	176 ±	9	0.194 ± 0.027	0.027 ± 0.003	0.029 ± 0.003	0.044 ± 0.012
	10	10	178 ±	12	0.193 ± 0.012	0.027 ± 0.004	0.027 ± 0.003	0.047 ± 0.011
	30	10	185 ±	15	0.195 ± 0.025	0.028 ± 0.004	0.030 ± 0.005	0.042 ± 0.008
	90	10	184 ±	8 #	0.201 ± 0.015	0.028 ± 0.003	0.030 ± 0.003	0.042 ± 0.011
	270	10	175 ±	11	0.188 ± 0.028	0.027 ± 0.004	0.030 ± 0.004	0.036 ± 0.007
	810	10	169 ±	8	0.194 ± 0.016	0.027 ± 0.003	0.027 ± 0.003	0.027 ± 0.005##

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	OVARY L (G)	HEART (G)	LUNG R (G)	LUNG L (G)	KIDNEY R (G)
FEMALE	0	10	0.043 ± 0.006	0.571 ± 0.034	0.439 ± 0.022	0.253 ± 0.015	0.575 ± 0.049
	10	10	0.047 ± 0.005	0.599 ± 0.033	0.446 ± 0.024	0.261 ± 0.017	0.571 ± 0.030
	30	10	0.046 ± 0.009	0.577 ± 0.053	0.487 ± 0.041**	0.283 ± 0.022**	0.592 ± 0.043
	90	10	0.042 ± 0.013	0.616 ± 0.033**	0.506 ± 0.025***	0.282 ± 0.015***	0.654 ± 0.032**
	270	10	0.039 ± 0.009	0.685 ± 0.065***	0.504 ± 0.039***	0.294 ± 0.031**	0.729 ± 0.038**
	810	10	0.027 ± 0.005***	0.732 ± 0.037***	0.498 ± 0.038***	0.288 ± 0.019***	0.760 ± 0.054**

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0020

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (G)	SPLLEN (G)	LIVER (G)	BRAIN (G)
FEMALE	0	10	0.578 ± 0.037	0.360 ± 0.014	4.098 ± 0.246	1.712 ± 0.036
	10	10	0.579 ± 0.036	0.361 ± 0.024	4.387 ± 0.338*	1.743 ± 0.028*
	30	10	0.608 ± 0.044	0.362 ± 0.024	5.878 ± 0.795***	1.712 ± 0.046
	90	10	0.663 ± 0.046***	0.427 ± 0.033***	8.116 ± 0.651***	1.727 ± 0.031
	270	10	0.729 ± 0.044***	0.612 ± 0.070***	8.045 ± 0.746***	1.715 ± 0.038
	810	10	0.777 ± 0.070***	0.823 ± 0.107***	8.036 ± 1.200***	1.701 ± 0.040

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

表 P-11 臓器重量 (体重比) . 総括表 (ラット, 13 週間試験)

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 002

WEEK 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)	THYMUS (%)	ADRENAL R (%)	ADRENAL L (%)	TESTIS R (%)
MALE	0	10	301 ± 15	0.080 ± 0.010	0.007 ± 0.001	0.008 ± 0.001	0.463 ± 0.030
	10	10	296 ± 18	0.078 ± 0.012	0.008 ± 0.001 ^{xx}	0.009 ± 0.001	0.475 ± 0.033
	30	10	304 ± 18	0.079 ± 0.011	0.008 ± 0.001	0.008 ± 0.001	0.451 ± 0.023
	90	10	302 ± 23	0.078 ± 0.007	0.008 ± 0.001 ^{xx}	0.009 ± 0.001	0.448 ± 0.039
	270	10	289 ± 25	0.076 ± 0.011	0.008 ± 0.002	0.009 ± 0.001	0.450 ± 0.052
	810	10	244 ± 18 ^{xxxx}	0.079 ± 0.012	0.010 ± 0.002 ^{xxxx}	0.010 ± 0.001 ^{xxxx}	0.463 ± 0.047

SIGNIFICANT DIFFERENCE: x: P<0.05 xx: P<0.01 xxx: P<0.001

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 002

WEEK 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TESTIS L (%)	HEART (%)	LUNG R (%)	LUNG L (%)	KIDNEY R (%)
MALE	0	10	0.484 ± 0.029	0.291 ± 0.017	0.204 ± 0.011	0.112 ± 0.006	0.286 ± 0.010
	10	10	0.486 ± 0.034	0.297 ± 0.019	0.204 ± 0.009	0.115 ± 0.008	0.302 ± 0.014*
	30	10	0.469 ± 0.022	0.291 ± 0.012	0.202 ± 0.008	0.115 ± 0.011	0.296 ± 0.016
	90	10	0.473 ± 0.044	0.290 ± 0.020	0.204 ± 0.006	0.120 ± 0.008*	0.310 ± 0.014**
	270	10	0.458 ± 0.046	0.309 ± 0.028	0.221 ± 0.013***	0.127 ± 0.008***	0.355 ± 0.039**
	810	10	0.494 ± 0.053	0.399 ± 0.028***	0.266 ± 0.013***	0.145 ± 0.014***	0.413 ± 0.023**

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 002

WEEK 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (%)	SPLEEN (%)	LIVER (%)	BRAIN (%)
MALE	0	10	0.288 ± 0.011	0.169 ± 0.008	2.443 ± 0.003	0.625 ± 0.032
	10	10	0.308 ± 0.015**	0.172 ± 0.008	2.594 ± 0.051***	0.632 ± 0.033
	30	10	0.298 ± 0.016	0.173 ± 0.007	2.887 ± 0.095***	0.614 ± 0.027
	90	10	0.316 ± 0.014***	0.170 ± 0.011	3.267 ± 0.274***	0.618 ± 0.048
	270	10	0.343 ± 0.020***	0.258 ± 0.073**	3.909 ± 0.283***	0.633 ± 0.055
	810	10	0.418 ± 0.018***	0.526 ± 0.095***	4.229 ± 0.552***	0.742 ± 0.055***

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 002

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)		THYMUS (%)	ADRENAL R (%)	ADRENAL L (%)	OVARY R (%)
FEMALE	0	10	176 ±	9	0.110 ± 0.016	0.016 ± 0.002	0.016 ± 0.002	0.025 ± 0.006
	10	10	178 ±	12	0.109 ± 0.006	0.015 ± 0.003	0.015 ± 0.001*	0.027 ± 0.006
	30	10	185 ±	15	0.106 ± 0.014	0.015 ± 0.002	0.016 ± 0.002	0.023 ± 0.004
	90	10	184 ±	8**	0.109 ± 0.007	0.015 ± 0.002	0.016 ± 0.002	0.023 ± 0.006
	270	10	175 ±	11	0.107 ± 0.012	0.016 ± 0.002	0.017 ± 0.002	0.021 ± 0.004
	810	10	169 ±	8	0.116 ± 0.010	0.016 ± 0.002	0.016 ± 0.001	0.016 ± 0.003*

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 002

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	OVARY L (%)	HEART (%)	LUNG R (%)	LUNG L (%)	KIDNEY R (%)
FEMALE	0	10	0.025 ± 0.004	0.324 ± 0.013	0.249 ± 0.014	0.144 ± 0.010	0.326 ± 0.028
	10	10	0.026 ± 0.003	0.338 ± 0.028	0.252 ± 0.017	0.147 ± 0.011	0.322 ± 0.016
	30	10	0.025 ± 0.005	0.313 ± 0.020	0.265 ± 0.022	0.154 ± 0.011 ^W	0.322 ± 0.018
	90	10	0.023 ± 0.007	0.335 ± 0.018	0.275 ± 0.010 ^{XXX}	0.153 ± 0.008 ^W	0.355 ± 0.017 ^W
	270	10	0.022 ± 0.005	0.391 ± 0.028 ^{XXXX}	0.287 ± 0.009 ^{XXX}	0.168 ± 0.012 ^{XXX}	0.416 ± 0.014 ^W
	810	10	0.016 ± 0.002 ^{XXXX}	0.435 ± 0.022 ^{XXXX}	0.296 ± 0.010 ^{XXX}	0.171 ± 0.006 ^{XXXX}	0.451 ± 0.024 ^W

SIGNIFICANT DIFFERENCE: W: P<0.05 WW: P<0.01 WWW: P<0.001

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 002

WEEK 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (%)	SPLEEN (%)	LIVER (%)	BRAIN (%)
FEMALE	0	10	0.328 ± 0.023	0.205 ± 0.012	2.327 ± 0.168	0.973 ± 0.048
	10	10	0.326 ± 0.020	0.203 ± 0.010	2.473 ± 0.203	0.984 ± 0.059
	30	10	0.331 ± 0.027	0.197 ± 0.013	3.190 ± 0.398***	0.933 ± 0.067
	90	10	0.360 ± 0.023**	0.232 ± 0.017***	4.406 ± 0.332***	0.939 ± 0.042
	270	10	0.416 ± 0.016***	0.349 ± 0.031***	4.590 ± 0.330***	0.981 ± 0.054
	810	10	0.458 ± 0.028***	0.488 ± 0.054***	4.757 ± 0.536***	1.011 ± 0.053

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

表P-12 病理組織学的所見. 総括表 (ラット. 13週間試験.
定期解剖動物)

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0020

SEX : MALE

DOSE LEVEL (PPM)		0				10				30				90				270				
NO. OF EXAMINED ANIMALS		10				10				10				10				10				
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	
LUNG	DEPOSIT OF CALCIUM	0	5	0	0	0	7	0	0	0	5	0	0	0	8	0	0	0	6	0	0	0
LIVER	PELIOSIS-LIKE LESION	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	FATTY CHANGE	0	0	0	0	0	2	0	0	9	1	0	0	5	5	0	0	1	8	1	0	0
	CYTOLOGICAL ALTERATION	0	1	0	0	0	4	0	0	9	0	0	0	9	0	0	0	10	0	0	0	0
	DEPOSIT OF CEROID	0	0	0	0	0	0	0	0	2	0	0	0	10	0	0	0	7	3	0	0	0
	GRANULATION	0	0	0	0	0	7	0	0	5	5	0	0	7	0	0	0	2	0	0	0	0
	FIBROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	4	0	0	0
	PNEUMONIA	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	8	2	0	0	0
	MITOSIS	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	6	3	1	0	0
	PROLIFERATIVE DUCTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	0	0	0
	CIRRHOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
	EOSINOPHILIC FOCI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
	BASOPHILIC FOCI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
KIDNEY	VACUOLIC CHANGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	HYALINE DEGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
	PROTEIN CAST	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	2	1	0	0	0
SPLEEN	DEPOSIT OF HEMOSIDERIN	0	6	3	0	0	9	1	0	7	3	0	0	5	5	0	0	7	3	0	0	0
	HEMATOPOIESIS	0	2	0	0	0	10	0	0	8	2	0	0	6	3	0	0	4	5	0	0	0
LYMPH NODES	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PANCREAS	INFLAMMATION	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
HEART	GRANULATION	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
HARDERIAN GLAND	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. 1 0020

SEX : MALE

DOSE LEVEL (PPM)		B10			
NO. OF EXAMINED ANIMALS		10			
ORGAN	FINDINGS	T	1	2	3
LUNG	DEPOSIT OF CALCIUM	0	4	0	0
LIVER	PELIOSIS-LIKE LESION	0	0	0	0
	FATTY CHANGE	0	0	9	1
	CYTOLOGICAL ALTERATION	0	9	1	0
	DEPOSIT OF CEROID	0	4	6	0
	GRANULATION	0	6	0	0
	FIBROSIS	0	0	10	0
	PLEOMORPHISM	0	5	5	0
	MITOSIS	0	4	6	0
	PROLIFERATIVE DUCTS	0	0	10	0
	CIRRHOSIS	0	0	1	9
	EOSINOPHILIC FOCI	0	6	1	0
	BASOPHILIC FOCI	0	6	0	0
KIDNEY	VACUOLIC CHANGE	0	4	6	0
	HYALINE DEGENERATION	0	6	4	0
	DEPOSIT OF PIGMENT	0	1	0	0
	PROTEIN CAST	0	2	1	0
SPLEEN	DEPOSIT OF HEMOSIDERIN	0	7	0	0
	HEMATOPOIESIS	0	3	3	4
LYMPH NODES					
	GRANULATION	0	1	1	0
PANCREAS	INFLAMMATION	0	1	0	0
HEART	GRANULATION	0	0	0	0
HANDFRIAN GLAND					
	GRANULATION	0	0	0	0

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0020

SEX : FEMALE

DOSE LEVEL (PPM)		810			
NO. OF EXAMINED ANIMALS		10			
ORGAN	FINDINGS	T	1	2	3
LUNG	DEPOSIT OF CALCIUM	0	8	0	0
LIVER	FATTY CHANGE	0	5	5	0
	CYTOLOGICAL ALTERATION	0	0	0	0
	DEPOSIT OF CERIOD	0	0	0	0
	GRANULATION	0	10	0	0
	FIBROSIS	0	9	0	0
	PLEOMORPHISM	0	0	9	1
	MITOSIS	0	0	9	1
	PROLIFERATIVE DUCTS	0	6	4	0
	CIRRHOSIS	0	7	2	0
	EOSINOPHILIC FOCI	0	6	0	0
	CLEAR CELL FOCI	0	4	6	0
	BASOPHILIC FOCI	0	0	0	0
KIDNEY	VACUOLIC CHANGE	0	5	5	0
	HYALINE DEGENERATION	0	4	5	1
	DEPOSIT OF PIGMENT	0	1	0	0
	PROTEIN CAST	0	7	1	0
UTERUS	HYPERPLASIA	0	0	0	0
	EOSINOPHILE	0	0	0	0
	HYDROMETRA	0	0	1	0
SPLEEN	DEPOSIT OF HEMOSIDERIN	0	9	1	0
	HEMATOPOIESIS	0	4	2	4
LYMPH NODES					
	GRANULATION	0	0	0	0
PANCREAS	INFLAMMATION	0	1	0	0
HARDERIAN GLAND					
	GRANULATION	0	0	0	0
BONE MARROW					
	GRANULATION	0	0	0	0
PERITONEUM	+ANGIOLIPOMA	0	0	0	0