

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

(Ⅲ-1～Ⅲ-44 ; 表)

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付録表Ⅲ－１

肉眼所見・総括表  
(ラット・急性試験・死亡・瀕死動物)

付録表Ⅲ-1

## 肉眼所見・総括表

(ラット・急性試験・死亡・瀕死動物)

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0007

SEX : MALE

DOSE LEVEL (PPM)		800	
NO. OF EXAMINED ANIMALS		10	0
ORGAN	FINDINGS	D	M
NOSE	FLUID	7	0
NASAL CAVITY	FLUID	0	0
SALIVARY GLAND	RED PATCH/ZONE	1	0
THYMUS	HEMORRHAGE	2	0
	RED PATCH/ZONE	5	0
TRACHEA	FLUID	0	0
LUNG	HEMORRHAGE	0	0
	CONGESTION	2	0
	REDDISH	0	0
	YELLOWISH	0	0
THORACIC CAVITY	FLUID	9	0
HEART	WHITE PATCH/ZONE	0	0
VENTRICLE	DILATED	0	0
ATRIUM	DILATED	0	0
	WHITE PATCH/ZONE	0	0
LIVER	CONGESTION	3	0
SPLEEN	SWOLEN	1	0
FORESTOMACH	HEMORRHAGE	6	0
GLANDULAR STOMACH	HEMORRHAGE	1	0
	CONGESTION	0	0
	EROSION	3	0
	RED PATCH/ZONE	2	0
PANCREAS	HEMORRHAGE	3	0
ADRENAL	CONGESTION	2	0
	REDDISH	1	0
KIDNEY	CONGESTION	3	0
	PALE	0	0
URINARY BLADDER	HEMORRHAGE	1	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD 0.2 MORIBUND)

STUDY NO. : 0007

SEX : FEMALE

DOSE LEVEL (PPM)		800	
NO. OF EXAMINED ANIMALS		10	0
ORGAN	FINDINGS	D	M
-----			
NASAL CAVITY			
	FLUID	1	0
BRAIN	CONGESTION	5	0
THYMUS	HEMORRHAGE	1	0
	ATROPHIC	0	0
	RED PATCH/ZONE	5	0
LUNG	CONGESTION	1	0
	ATELECTASIS	0	0
	RED PATCH/ZONE	0	0
THORACIC CAVITY			
	FLUID	10	0
PLEURAL	FLUID	0	0
HEART	DILATED	0	0
	WHITE PATCH/ZONE	0	0
VENTRICLE	DILATED	0	0
ABDOMINAL CAVITY			
	FLUID	0	0
LIVER	CONGESTION	6	0
	HEPATOMA	1	0
FORESTOMACH			
	HEMORRHAGE	5	0
	ULCER	0	0
GLANDULAR STOMACH			
	HEMORRHAGE	3	0
	CONGESTION	1	0
	EROSION	1	0
	FLUID	0	0
	RED PATCH/ZONE	1	0
MESENTERIUM			
	EDEMA	0	0
ADRENAL	HYPEREMIA	1	0
	CONGESTION	5	0
	ENLARGED	0	0
	REDDISH	1	0
KIDNEY	CONGESTION	1	0
	SWOLLEN	1	0
	SOFT	0	0
	PALE	0	0
	BROWN	0	0
	WHITE PATCH/ZONE	0	0
URINARY BLADDER			
	HEMORRHAGE	2	0
	RED PATCH/ZONE	1	0

D: DEAD M: MORIBUND



TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0007

SEX : FEMALE

DOSE LEVEL (PPM)		0		96		163		277		471	
NO. OF EXAMINED ANIMALS		0	0	0	0	1	0	5	0	10	0
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
NASAL CAVITY	FLUID	0	0	0	0	0	0	1	0	0	0
BRAIN	CONGESTION	0	0	0	0	0	0	0	0	0	0
THYMUS	HEMORRHAGE	0	0	0	0	0	0	0	0	6	0
	ATROPHIC	0	0	0	0	0	0	3	0	0	0
	RED PATCH/ZONE	0	0	0	0	0	0	0	0	0	0
LUNG	CONGESTION	0	0	0	0	1	0	4	0	1	0
	ATELECTASIS	0	0	0	0	1	0	0	0	0	0
	RED PATCH/ZONE	0	0	0	0	0	0	0	0	6	0
THORACIC CAVITY	FLUID	0	0	0	0	0	0	2	0	3	0
PLEURAL	FLUID	0	0	0	0	0	0	0	0	4	0
HEART	DILATED	0	0	0	0	1	0	0	0	0	0
	WHITE PATCH/ZONE	0	0	0	0	0	0	2	0	0	0
VENTRICLE	DILATED	0	0	0	0	1	0	1	0	0	0
ABDOMINAL CAVITY	FLUID	0	0	0	0	0	0	1	0	0	0
LIVER	CONGESTION	0	0	0	0	0	0	0	0	0	0
	HERNIATION	0	0	0	0	0	0	0	0	0	0
FORESTOMACH	HEMORRHAGE	0	0	0	0	0	0	0	0	2	0
	ULCER	0	0	0	0	0	0	2	0	0	0
GLANDULAR STOMACH	HEMORRHAGE	0	0	0	0	0	0	0	0	7	0
	CONGESTION	0	0	0	0	0	0	0	0	0	0
	FROSTED	0	0	0	0	0	0	0	0	0	0
	FLUID	0	0	0	0	0	0	1	0	0	0
	RED PATCH/ZONE	0	0	0	0	0	0	2	0	1	0
MESENTERIUM	EDEMA	0	0	0	0	0	0	1	0	0	0
ADRENAL	HYPEREMIA	0	0	0	0	0	0	0	0	0	0
	CONGESTION	0	0	0	0	0	0	0	0	0	0
	ENLARGED	0	0	0	0	0	0	0	0	1	0
	REDDISH	0	0	0	0	0	0	3	0	2	0
KIDNEY	CONGESTION	0	0	0	0	0	0	0	0	0	0
	SWOLLEN	0	0	0	0	0	0	0	0	0	0
	SOFT	0	0	0	0	0	0	1	0	0	0
	PALE	0	0	0	0	0	0	1	0	0	0
	WORMY	0	0	0	0	0	0	1	0	0	0
	WHITE PATCH/ZONE	0	0	0	0	0	0	1	0	0	0
URINARY BLADDER	HEMORRHAGE	0	0	0	0	0	0	0	0	1	0
	RED PATCH/ZONE	0	0	0	0	0	0	0	0	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0007

SEX : MALE

DOSE LEVEL (PPM)		0		96		163		277		471	
NO. OF EXAMINED ANIMALS		0	0	0	0	0	0	1	0	9	0
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
NOSE	FLUID	0	0	0	0	0	0	0	0	0	0
NASAL CAVITY	FLUID	0	0	0	0	0	0	0	0	1	0
SALIVARY GLAND	RED PATCH/ZONE	0	0	0	0	0	0	0	0	0	0
THYMUS	HEMORRHAGE	0	0	0	0	0	0	0	0	1	0
	RED PATCH/ZONE	0	0	0	0	0	0	0	0	0	0
TRACHEA	FLUID	0	0	0	0	0	0	0	0	1	0
LUNG	HEMORRHAGE	0	0	0	0	0	0	1	0	0	0
	CONGESTION	0	0	0	0	0	0	1	0	4	0
	REDDISH	0	0	0	0	0	0	0	0	2	0
	YELLOWISH	0	0	0	0	0	0	0	0	1	0
THORACIC CAVITY	FLUID	0	0	0	0	0	0	0	0	4	0
HEART	WHITE PATCH/ZONE	0	0	0	0	0	0	1	0	0	0
VENTRICLE	DILATED	0	0	0	0	0	0	0	0	2	0
ATRIUM	DILATED	0	0	0	0	0	0	0	0	2	0
	WHITE PATCH/ZONE	0	0	0	0	0	0	0	0	1	0
LIVER	CONGESTION	0	0	0	0	0	0	0	0	1	0
SPLEEN	SWOLLEN	0	0	0	0	0	0	0	0	0	0
FORESTOMACH	HEMORRHAGE	0	0	0	0	0	0	0	0	3	0
GLANDULAR STOMACH	HEMORRHAGE	0	0	0	0	0	0	1	0	4	0
	CONGESTION	0	0	0	0	0	0	0	0	1	0
	EROSION	0	0	0	0	0	0	0	0	0	0
	RED PATCH/ZONE	0	0	0	0	0	0	0	0	0	0
PANCREAS	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0
ADRENAL	CONGESTION	0	0	0	0	0	0	0	0	1	0
	REDDISH	0	0	0	0	0	0	1	0	3	0
KIDNEY	CONGESTION	0	0	0	0	0	0	0	0	0	0
	PALE	0	0	0	0	0	0	0	0	3	0
URINARY BLADDER	HEMORRHAGE	0	0	0	0	0	0	0	0	1	0

D: DEAD M: MORIBUND

付録表Ⅲ－２

肉眼所見・総括表  
(ラット・急性試験・定期解剖動物)

## 付録表Ⅲ－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. : 0007

SEX : MALE

DOSE LEVEL (PPM)		0	96	163	277	471
NO. OF EXAMINED ANIMALS		10	10	10	9	1
ORGAN	FINDINGS					
THYMUS	HEMORRHAGE	0	1	0	0	0
TESTIS	SMALL	0	0	1	2	0
SEMINAL VESICLE	SMALL	0	0	1	0	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0007

SEX : MALE

DOSE LEVEL (PPM)		800
NO. OF EXAMINED ANIMALS		6
ORGAN	FINDINGS	
THYMUS	HEMORRHAGE	0
TESTIS	SMALL	0
SEMINAL VESICLE	SMALL	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0007

SEX : FEMALE

DOSE LEVEL (PPM)		0	96	163	277	471
NO. OF EXAMINED ANIMALS		10	10	9	5	9
ORGAN	FINDINGS					
LIVER	HEPNIATION	0	0	0	1	0
KIDNEY	ADHESION	0	1	0	0	0
UTERUS	DILATED	2	4	3	1	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0007

SEX : FEMALE

DOSE LEVEL (PPM)		800
NO. OF EXAMINED ANIMALS		0
ORGAN	FINDINGS	
LIVER	HERNIATION	0
KIDNEY	ADHESION	0
UTERUS	DILATED	0

付録表Ⅲ－３

病理組織学的所見・総括表

（ラット・急性試験・死亡・瀕死動物）



付録表Ⅲ-3

## 病理組織学的所見・総括表

(ラット・急性試験・死亡・瀕死動物)

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0007

SEX : MALE

DOSE LEVEL (PPM)		0				96				163				277				471			
NO. OF EXAMINED ANIMALS		0				96				163				277				471			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
LARYNX	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0
	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
KIDNEY	TUBULAR NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2
	PROTEIN CAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
STOMACH	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ULCEP	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
CECUM	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
LARGE INTESTINE	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
SPLEEN	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0
LYMPH NODES	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0
HEART	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
ADRENAL	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
NASAL CAVITY	DEGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0007

SEX : MALE

DOSE LEVEL (PPM)		800			
NO. OF EXAMINED ANIMALS		3			
ORGAN	FINDINGS	T	1	2	3
LARYNX	NECROSIS	0	0	0	0
LUNG	CONGESTION	0	0	3	0
	HEMORRHAGE	0	0	0	0
	EDEMA	0	3	0	0
KIDNEY	TUBULAR NECROSIS	0	0	0	3
	PROTEIN CAST	0	1	1	0
STOMACH	HEMORRHAGE	0	1	0	0
	ULCER	0	0	1	0
CECUM	NECROSIS	0	1	0	0
LARGE INTESTINE	NECROSIS	0	1	0	0
	ATROPHY	0	1	0	1
SPLEEN	KARYORRHEXIS	0	1	1	0
THYMUS	ATROPHY	0	2	0	0
	KARYORRHEXIS	0	1	2	0
LYMPH NODES	KARYORRHEXIS	0	1	1	0
HEART	HEMORRHAGE	0	0	0	0
	NECROSIS	0	0	0	0
ADRENAL	HEMORRHAGE	0	1	1	0
NASAL CAVITY	DEGENERATION	0	2	0	0
+ : BENIGN    # : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED					

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0007

SEX : FEMALE

DOSE LEVEL (PPM)		0				96				163				277				471			
NO. OF EXAMINED ANIMALS		0				0				1				2				2			
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	1	0	0	1	1	0	0	1	0	0
	EDema	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
KIDNEY	DEPOSIT OF CALCIUM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	TUBULAR NECROSIS	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	2
	PROTEIN CAST	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	2	0	0
STOMACH	ULCER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMALL INTESTINE	NECROSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0
CECUM	NECROSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
LARGE INTESTINE	NECROSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0
SPLEEN	KARYORRHESIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	ATROPHY	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	2	0	0
THYMUS	KARYORRHESIS	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	2	0
LYMPH NODES	KARYORRHESIS	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	1	0
HEART	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	FIBROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
ADRENAL	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0
NASAL CAVITY	DEGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0007

SEX : FEMALE

DOSE LEVEL (PPM)		800			
NO. OF EXAMINED ANIMALS		2			
ORGAN	FINDINGS	T	1	2	3
LUNG	CONGESTION	0	2	0	0
	EDEMA	0	1	0	0
KIDNEY	DEPOSIT OF CALCIUM	0	0	0	0
	TUBULAR NECROSIS	0	0	0	2
	PROTEIN CAST	0	1	1	0
STOMACH	ULCER	0	1	0	0
SMALL INTESTINE					
	NECROSIS	0	1	0	0
CECUM	NECROSIS	0	0	0	0
LARGE INTESTINE					
	NECROSIS	0	0	0	0
SPLEEN	ATROPHY	0	1	0	0
	KARYORRHEXIS	0	2	0	0
THYMUS	ATROPHY	0	1	0	0
	KARYORRHEXIS	0	1	1	0
LYMPH NODES					
	KARYORRHEXIS	0	2	0	0
HEART	HEMORRHAGE	0	0	1	0
	FIBROSIS	0	0	0	0
ADRENAL	HEMORRHAGE	0	2	0	0
NASAL CAVITY					
	DEGENERATION	0	0	2	0

+ : BENIGN    # : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

付録表Ⅲ－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)

## 付録表Ⅲ-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. : 0007

SEX : MALE

DOSE LEVEL (PPM)		0				96				163				277				471			
NO. OF EXAMINED ANIMALS		2				2				2				2				1			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
KIDNEY	DEPOSIT OF CALCIUM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
+	BENIGN																				
x	MALIGNANT																				
T	TUMOR																				
1	SLIGHT																				
2	MODERATE																				
3	MARKED																				

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0007

SEX : FEMALE

DOSE LEVEL (PPM)		800			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
KIDNEY	DEPOSIT OF CALCIUM	0	0	0	0
+ : BENIGN		# : MALIGNANT		T : TUMOR	
		1 : SLIGHT		2 : MODERATE	
				3 : MARKED	





TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0007

SEX : MALE

DOSE LEVEL (PPM)		800			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
KIDNEY	DEPOSIT OF CALCIUM	0	0	0	0
+ : BENIGN    # : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED					

付録表Ⅲ－５

肉眼所見・総括表  
(ラット・２週間試験・死亡・瀕死動物)

## 付録表Ⅲ-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. : 0026

SEX : MALE

DOSE LEVEL (PPM)		0		278		833		2500		7500	
NO. OF EXAMINED ANIMALS		0	0	0	0	0	0	0	0	9	1
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
WHOLE BODY	WASTING	0	0	0	0	0	0	0	0	8	1
THYMUS	ATROPHIC	0	0	0	0	0	0	0	0	9	1
LUNG	CONGESTION	0	0	0	0	0	0	0	0	1	0
SPLEEN	ATROPHIC	0	0	0	0	0	0	0	0	8	1
STOMACH	FLUID	0	0	0	0	0	0	0	0	3	0
GLANDULAR STOMACH	HEMORRHAGE	0	0	0	0	0	0	0	0	9	1
PANCREAS	ATROPHIC	0	0	0	0	0	0	0	0	6	0
SEMINAL VESICLE	ATROPHIC	0	0	0	0	0	0	0	0	0	0
	SMALL	0	0	0	0	0	0	0	0	5	1

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0026

SEX : MALE

DOSE LEVEL (PPM)		22500	
NO. OF EXAMINED ANIMALS		9	1
ORGAN	FINDINGS	D	M
WHOLE BODY	WASTING	9	1
THYMUS	ATROPHIC	9	1
LUNG	CONGESTION	0	0
SPLEEN	ATROPHIC	8	1
STOMACH	FLUID	2	0
GLANDULAR STOMACH			
	HEMORRHAGE	8	1
PANCREAS	ATROPHIC	2	0
SEMINAL VESICLE			
	ATROPHIC	1	0
	SMALL	6	1

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0026

SEX : FEMALE

DOSE LEVEL (PPM)		0		278		833		2500		7500	
NO. OF EXAMINED ANIMALS											
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
WHOLE BODY	WASTING	0	0	0	0	0	0	8	0	8	2
THYMUS	ATROPHIC	0	0	0	0	0	0	8	0	8	2
LUNG	CONGESTION	0	0	0	0	0	0	0	0	1	0
LIVER	CONGESTION	0	0	0	0	0	0	1	0	0	0
	REDDISH	0	0	0	0	0	0	1	0	1	0
SPLEEN	ATROPHIC	0	0	0	0	0	0	5	0	4	1
STOMACH	FLUID	0	0	0	0	0	0	2	0	1	0
FORESTOMACH											
	EROSION	0	0	0	0	0	0	1	0	0	0
GLANDULAR STOMACH											
	HEMORRHAGE	0	0	0	0	0	0	6	0	6	2
	FLUID	0	0	0	0	0	0	4	0	1	0
PANCREAS	ATROPHIC	0	0	0	0	0	0	5	0	4	1
KIDNEY	CONGESTION	0	0	0	0	0	0	1	0	1	0
	REDDISH	0	0	0	0	0	0	0	0	1	0
UTERUS	ATROPHIC	0	0	0	0	0	0	2	0	1	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0026

SEX : FEMALE

DOSE LEVEL (PPM)		22500	
NO. OF EXAMINED ANIMALS		9	1
ORGAN	FINDINGS	D	M
WHOLE BODY	WASTING	8	1
THYMUS	ATROPHIC	9	1
LUNG	CONGESTION	0	0
LIVER	CONGESTION	0	0
	REDDISH	0	0
SPLEEN	ATROPHIC	2	1
STOMACH	FLUID	0	0
FORESTOMACH	EROSION	0	0
GLANDULAR STOMACH	HEMORRHAGE	7	1
	FLUID	5	0
PANCREAS	ATROPHIC	1	0
KIDNEY	CONGESTION	0	0
	REDDISH	0	0
UTERUS	ATROPHIC	0	0

D: DEAD M: MORIBUND

付録表Ⅲ－6

肉眼所見・総括表  
(ラット・2週間試験・定期解剖動物)

付録表Ⅲ－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. : 0026

SEX : MALE

DOSE LEVEL (PPM)		0	278	833	2500	7500
NO. OF EXAMINED ANIMALS		10	10	10	10	0
ORGAN	FINDINGS					
BRAIN	CONGESTION	0	0	0	0	0
CEREBRUM	CONGESTION	0	0	0	1	0
PITUITARY	HEMORRHAGE	0	0	0	1	0
	CONGESTION	1	0	1	0	0
THYMUS	HEMORRHAGE	0	0	3	0	0
	ATROPHIC	0	0	0	10	0
LUNG	HEMORRHAGE	1	0	0	0	0
LIVER	CONGESTION	0	0	0	7	0
	ATROPHIC	0	0	0	0	0
	COLORED PATCH/ZONE	0	0	0	6	0
SPLEEN	ATROPHIC	0	0	0	7	0
GLANDULAR STOMACH	EROSION	0	0	0	1	0
	RED PATCH/ZONE	0	0	0	1	0
KIDNEY	CONGESTION	0	0	0	0	0
	ATROPHIC	0	0	0	6	0
URINARY BLADDER	STONE	2	1	0	0	0
SEMINAL VESICLE	ATROPHIC	0	0	0	10	0



TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0026

SEX : MALE

DOSE LEVEL (PPM)	22500
NO. OF EXAMINED ANIMALS	0
ORGAN----- FINDINGS-----	

BRAIN	CONGESTION	0
CEREBRUM	CONGESTION	0
PITUITARY	HEMORRHAGE	0
	CONGESTION	0
THYMUS	HEMORRHAGE	0
	ATROPHIC	0
LUNG	HEMORRHAGE	0
LIVER	CONGESTION	0
	ATROPHIC	0
	COLORED PATCH/ZONE	0
SPLEEN	ATROPHIC	0
GLANDULAR STOMACH		
	EROSION	0
	RED PATCH/ZONE	0
KIDNEY	CONGESTION	0
	ATROPHIC	0
URINARY BLADDER		
	STONE	0
SEMINAL VESICLE		
	ATROPHIC	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0026

SEX : FEMALE

DOSE LEVEL (PPM)		0	278	833	2500	7500
NO. OF EXAMINED ANIMALS		10	10	10	1	0
ORGAN	FINDINGS					
CEREBRUM	CONGESTION	0	0	0	1	0
WHOLE BODY	ANEMIC	0	0	1	0	0
	WASTING	0	0	6	1	0
THYMUS	ATROPHIC	0	0	0	1	0
UTERUS	DILATED LUMEN	3	0	1	0	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0026

SEX : FEMALE

DOSE LEVEL (PPM)	22500
NO. OF EXAMINED ANIMALS	0

ORGAN	FINDINGS
-------	----------

CEREBRUM	CONGESTION	0
WHOLE BODY	ANEMIC	0
	WASTING	0
THYMUS	ATROPHIC	0
UTERUS	DILATED LUMEN	0

付録表Ⅲ－７

病理組織学的所見・総括表

(ラット・２週間試験・死亡・瀕死動物)

付録表Ⅲ - 7

## 病理組織学的所見・総括表

(ラット・2週間試験・死亡・瀕死動物)

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0026

SEX : MALE

DOSE LEVEL (PPM)		0				270				833				2500				7500			
NO. OF EXAMINED ANIMALS		0				0				0				0				2			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
LIVER	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
TESTIS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPIDIDYMIS	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLEEN	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
LYMPH NODES	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
BONE MARROW	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	HYPOPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0026

SEX : MALE

DOSE LEVEL (PPM)		22500			
NO. OF EXAMINED ANIMALS		2			
ORGAN	FINDINGS	T	1	2	3
LIVER	ATROPHY	0	2	0	0
	NECROSIS	0	2	0	0
	DEPOSIT OF PIGMENT	0	2	0	0
TESTIS	ATROPHY	0	1	0	0
EPIDIDYMIS	HEMORRHAGE	0	0	1	0
SPLEEN	ATROPHY	0	0	2	0
THYMUS	ATROPHY	0	0	2	0
LYMPH NODES					
	ATROPHY	0	0	1	0
BONE MARROW					
	CONGESTION	0	0	2	0
	HYPPLASIA	0	0	2	0

+ : BENIGN    # : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE		SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

STUDY NO. : 0026

SEX : FEMALE

[illegible]

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0026

SEX : FEMALE

DOSE LEVEL (PPM)		22500			
NO. OF EXAMINED ANIMALS		3			
ORGAN	FINDINGS	T	1	2	3
LIVER	ATROPHY	0	3	0	0
	NECROSIS	0	1	0	0
	DEPOSIT OF PIGMENT	0	3	0	0
SPLEEN	ATROPHY	0	3	0	0
THYMUS	ATROPHY	0	0	1	0
LYMPH NODES	ATROPHY	0	3	0	0
	HEMORRHAGE	0	0	2	0
ADRENAL	CONGESTION	0	1	2	0
BONE MARROW	HYPOPLASIA	0	1	1	0
	DEPOSIT OF CALCIUM	0	0	1	0
+ : BENIGN    x : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED					



付録表Ⅲ－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）

付録表Ⅲ－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. : 0026

SEX : MALE

DOSE LEVEL (PPM)		0				270				833				2500				7500			
NO. OF EXAMINED ANIMALS																					
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
LIVER	ATROPHY	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	1	0	0	0	0	0	0
SPLEEN	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
LYMPH NODES	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
BONE MARROW	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	HYPOPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0

+ : BENIGN    # : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0026

SEX : MALE

DOSE LEVEL (PPM)		22500			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
LIVER	ATROPHY	0	0	0	0
	NECROSIS	0	0	0	0
SPLEEN	ATROPHY	0	0	0	0
THYMUS	ATROPHY	0	0	0	0
LYMPH NODES	ATROPHY	0	0	0	0
BONE MARROW	ATROPHY	0	0	0	0
	CONGESTION	0	0	0	0
	HYPOPLASIA	0	0	0	0
+ : BENIGN    * : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED					

TABLE		SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

STUDY NO. : 0026

SEX : FEMALE

DOSE LEVEL (PPM)		0				278				833				2500				7500			
NO. OF EXAMINED ANIMALS		2				2				2				1				0			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
LIVER	ATROPHY	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	1	0	0	0	0	0	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
KIDNEY	DEPOSIT OF CALCIUM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLLEEN	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
LYMPH NODES																					
PANCREAS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
BONE MARROW							1	0	0		0	0	0		0	0	0				
	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	HYPOPLASIA	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0
+	: BENIGN	* : MALIGNANT				T : TUMOR				1 : SLIGHT				2 : MODERATE				3 : MARKED			

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0026

SEX : FEMALE

DOSE LEVEL (PPM)		22500			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
LIVER	ATROPHY	0	0	0	0
	NECROSIS	0	0	0	0
	DEPOSIT OF PIGMENT	0	0	0	0
KIDNEY	DEPOSIT OF CALCIUM	0	0	0	0
SPLEEN	ATROPHY	0	0	0	0
THYMUS	ATROPHY	0	0	0	0
LYMPH NODES					
	ATROPHY	0	0	0	0
PANCREAS	ATROPHY	0	0	0	0
BONE MARROW					
	CONGESTION	0	0	0	0
	HYPOPLASIA	0	0	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

付録表Ⅲ－９

肉眼所見・総括表  
(ラット・１３週間試験・定期解剖動物)

## 付録表Ⅲ－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. : 0038

SEX : FEMALE

DOSE LEVEL (PPM)		0	62.5	125	250	500
NO. OF EXAMINED ANIMALS		10	10	10	10	10
ORGAN	FINDINGS					
GENITAL	SOILED	0	0	0	0	0
SALIVARY GLAND	SMALL	0	0	0	0	0
THYMUS	REDUCED	0	0	0	0	0
LUNG	HEMORRHAGE	0	0	0	0	1
	CONGESTION	0	1	0	0	0
LIVER	CONGESTION	0	1	0	0	0
	YELLOWISH	0	0	1	0	0
	HEPATOMA	0	0	1	0	0
OVARY	REDDISH	1	0	1	1	0
	RED PATCH/ZONE	3	2	2	3	3
UTERUS	REDUCED	0	0	0	0	0
	ATROPHIC	0	0	0	0	0
	DILATED LUMEN	5	7	5	6	6

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0038

SEX : MALE

DOSE LEVEL (PPM)		0	62.5	125	250	500
NO. OF EXAMINED ANIMALS		10	10	10	10	10
ORGAN	FINDINGS					
LUNG	HEMORRHAGE	0	0	1	1	2
LIVER	ENLARGED	0	0	0	1	0
	YELLOWISH	0	1	0	0	0
	HERNIATION	1	0	0	0	0



TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0038

SEX : MALE

DOSE LEVEL (PPM)	1000
NO. OF EXAMINED ANIMALS	10
ORGAN----- FINDINGS-----	

LUNG	HEMORRHAGE	0
LIVER	ENLARGED	0
	YELLOWISH	0
	HEPATIC	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0038

SEX : FEMALE

DOSE LEVEL (PPM)		1000
NO. OF EXAMINED ANIMALS		10
ORGAN	FINDINGS	
GENITAL	SOILED	1
SALIVARY GLAND	SMALL	1
THYMUS	REDUCED	3
LUNG	HEMORRHAGE	0
	CONGESTION	0
LIVER	CONGESTION	0
	YELLOWISH	1
	HEMNATION	2
OVARY	REDDISH	0
	RED PATCH/ZONE	1
UTERUS	REDUCED	1
	ATROPHIC	1
	DILATED LUMEN	1

付録表Ⅲ－１０

臓器重量（実重量）・総括表  
（ラット・１３週間試験）

付録表Ⅲ-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. : 0038

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	343 ± 15	0.281 ± 0.025	0.025 ± 0.002	0.027 ± 0.002	1.517 ± 0.064
	62.5	10	347 ± 15	0.277 ± 0.023	0.024 ± 0.002	0.027 ± 0.002	1.458 ± 0.044*
	125	10	345 ± 12	0.268 ± 0.021	0.024 ± 0.004	0.027 ± 0.005	1.519 ± 0.038
	250	10	350 ± 14	0.291 ± 0.030	0.024 ± 0.003	0.027 ± 0.003	1.485 ± 0.043
	500	10	323 ± 18 ***	0.253 ± 0.031*	0.025 ± 0.003	0.026 ± 0.002	1.477 ± 0.064
	1000	10	272 ± 22 ***	0.199 ± 0.020***	0.024 ± 0.003	0.026 ± 0.002	1.415 ± 0.034**

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0038

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	1.546 ± 0.101	1.010 ± 0.058	0.680 ± 0.039	0.390 ± 0.019	1.012 ± 0.047
	62.5	10	1.535 ± 0.046	0.980 ± 0.055	0.676 ± 0.037	0.391 ± 0.021	0.995 ± 0.050
	125	10	1.568 ± 0.043	0.966 ± 0.038	0.676 ± 0.034	0.391 ± 0.017	1.000 ± 0.046
	250	10	1.511 ± 0.051	0.968 ± 0.045	0.676 ± 0.034	0.387 ± 0.017	1.018 ± 0.042
	500	10	1.507 ± 0.076	0.880 ± 0.054***	0.630 ± 0.068	0.372 ± 0.020*	1.017 ± 0.054
	1000	10	1.465 ± 0.044*	0.788 ± 0.057***	0.592 ± 0.038***	0.344 ± 0.019***	0.971 ± 0.072

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (G)	SPLFEE <sup>a</sup> (G)	LIVER (G)	BRAIN (G)
MALE	0	10	1.020 ± 0.046	0.638 ± 0.034	8.561 ± 0.330	1.928 ± 0.026
	62.5	10	1.013 ± 0.065	0.621 ± 0.024	8.491 ± 0.421	1.920 ± 0.029
	125	10	1.014 ± 0.036	0.633 ± 0.041	8.439 ± 0.414	1.924 ± 0.040
	250	10	1.029 ± 0.051	0.623 ± 0.019	8.712 ± 0.538	1.927 ± 0.013
	500	10	1.032 ± 0.056	0.572 ± 0.052**	7.889 ± 0.500**	1.907 ± 0.027
	1000	10	0.990 ± 0.082	0.520 ± 0.084**	6.630 ± 0.686***	1.863 ± 0.040***

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0038

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	190 ±	11	0.216 ± 0.014	0.028 ± 0.002	0.031 ± 0.004	0.051 ± 0.008
	62.5	10	187 ±	7	0.211 ± 0.029	0.027 ± 0.004	0.029 ± 0.003	0.051 ± 0.008
	125	10	189 ±	8	0.210 ± 0.016	0.027 ± 0.003	0.029 ± 0.004	0.051 ± 0.006
	250	10	186 ±	10	0.200 ± 0.016	0.027 ± 0.003	0.029 ± 0.003	0.048 ± 0.009
	500	10	168 ±	12 ***	0.176 ± 0.013***	0.025 ± 0.003**	0.026 ± 0.004*	0.049 ± 0.005
	1000	10	157 ±	8 ***	0.133 ± 0.018***	0.022 ± 0.002***	0.024 ± 0.002***	0.035 ± 0.007**

SIGNIFICANT DIFFERENCE: \* : P&lt;0.05 \*\* : P&lt;0.01 \*\*\* : P&lt;0.001

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0038

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	0.057 ± 0.007	0.614 ± 0.042	0.499 ± 0.027	0.294 ± 0.020	0.589 ± 0.045
	62.5	10	0.049 ± 0.007*	0.600 ± 0.028	0.507 ± 0.040	0.297 ± 0.019	0.591 ± 0.038
	125	10	0.054 ± 0.009	0.583 ± 0.029	0.497 ± 0.034	0.286 ± 0.015	0.595 ± 0.027
	250	10	0.046 ± 0.007**	0.582 ± 0.051	0.483 ± 0.032	0.282 ± 0.018	0.614 ± 0.026
	500	10	0.047 ± 0.005**	0.544 ± 0.037***	0.476 ± 0.032	0.270 ± 0.019*	0.649 ± 0.040**
	1000	10	0.040 ± 0.007***	0.443 ± 0.017***	0.414 ± 0.019***	0.240 ± 0.017***	0.579 ± 0.021

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



TABLE ABSOLUTE BODY AND ORGAN WEIGHTS

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPH)	NO. OF ANIMALS	KIDNEY L (G)	SPLLEN (G)	LIVER (G)	BRAIN (G)
FEMALE	0	10	0.502 ± 0.051	0.413 ± 0.032	4.464 ± 0.240	1.781 ± 0.039
	62.5	10	0.506 ± 0.036	0.418 ± 0.029	4.566 ± 0.637	1.781 ± 0.042
	125	10	0.586 ± 0.035	0.398 ± 0.026	4.338 ± 0.183	1.766 ± 0.042
	250	10	0.619 ± 0.034	0.403 ± 0.035	4.362 ± 0.271	1.763 ± 0.026
	500	10	0.648 ± 0.022**	0.390 ± 0.031	4.046 ± 0.298**	1.710 ± 0.039***
	1000	10	0.601 ± 0.015	0.354 ± 0.030***	3.304 ± 0.189***	1.696 ± 0.033***

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

付録表Ⅲ－１１

臓器重量（体重比）・総括表  
（ラット・１３週間試験）

付録表Ⅲ - 1 1

## 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. : 0030

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)		THYMUS (%)	ADRENAL R (%)	ADRENAL L (%)	TESTIS R (%)
MALE	0	10	353 ±	15	0.079 ± 0.006	0.007 ± 0.001	0.008 ± 0.001	0.430 ± 0.014
	62.5	10	347 ±	15	0.080 ± 0.007	0.007 ± 0.001	0.008 ± 0.001	0.421 ± 0.018
	125	10	345 ±	12	0.078 ± 0.006	0.007 ± 0.001	0.008 ± 0.001	0.441 ± 0.018
	250	10	350 ±	14	0.083 ± 0.007	0.007 ± 0.001	0.008 ± 0.001	0.425 ± 0.022
	500	10	323 ±	18***	0.078 ± 0.008	0.008 ± 0.001	0.008 ± 0.001	0.459 ± 0.021**
	1000	10	272 ±	22***	0.074 ± 0.008	0.009 ± 0.002**	0.009 ± 0.001**	0.523 ± 0.041**

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TESTIS L (%)	HEART (%)	LUNG R (%)	LUNG L (%)	KIDNEY R (%)
MALE	0	10	0.438 ± 0.024	0.286 ± 0.010	0.193 ± 0.008	0.110 ± 0.004	0.287 ± 0.006
	62.5	10	0.443 ± 0.022	0.283 ± 0.014	0.195 ± 0.010	0.113 ± 0.004	0.287 ± 0.008
	125	10	0.455 ± 0.014	0.280 ± 0.009	0.196 ± 0.014	0.114 ± 0.007	0.290 ± 0.008
	250	10	0.432 ± 0.026	0.276 ± 0.009*	0.193 ± 0.009	0.111 ± 0.005	0.291 ± 0.009
	500	10	0.468 ± 0.026*	0.273 ± 0.015*	0.195 ± 0.016	0.115 ± 0.003**	0.316 ± 0.012**
	1000	10	0.541 ± 0.050***	0.290 ± 0.012	0.218 ± 0.016***	0.127 ± 0.009***	0.357 ± 0.011**

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (%)	SPLEEN (%)	LIVER (%)	BRAIN (%)
MALE	0	10	0.249 ± 0.009	0.181 ± 0.006	2.424 ± 0.046	0.547 ± 0.023
	62.5	10	0.242 ± 0.017	0.179 ± 0.006	2.444 ± 0.062	0.554 ± 0.024
	125	10	0.244 ± 0.009	0.184 ± 0.009	2.447 ± 0.092	0.558 ± 0.023
	250	10	0.244 ± 0.009	0.178 ± 0.006	2.487 ± 0.089	0.551 ± 0.021
	500	10	0.320 ± 0.010***	0.177 ± 0.008	2.445 ± 0.046	0.593 ± 0.029**
	1000	10	0.363 ± 0.012***	0.191 ± 0.021	2.431 ± 0.101	0.687 ± 0.048***

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0038

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)		THYMUS (%)	ADRENAL R (%)	ADRENAL L (%)	OVARY R (%)
FEMALE	0	10	190 ±	11	0.114 ± 0.006	0.015 ± 0.001	0.016 ± 0.002	0.027 ± 0.003
	62.5	10	187 ±	7	0.112 ± 0.014	0.014 ± 0.002	0.016 ± 0.001	0.027 ± 0.004
	125	10	189 ±	8	0.111 ± 0.007	0.014 ± 0.002	0.015 ± 0.002	0.027 ± 0.003
	250	10	186 ±	10	0.112 ± 0.009	0.015 ± 0.001	0.016 ± 0.001	0.026 ± 0.004
	500	10	166 ±	12***	0.105 ± 0.008**	0.015 ± 0.002	0.016 ± 0.003	0.029 ± 0.003
	1000	10	137 ±	8***	0.096 ± 0.009***	0.016 ± 0.001**	0.017 ± 0.002	0.025 ± 0.005

SIGNIFICANT DIFFERENCE; \*: P&lt;0.05 \*\* : P&lt;0.01 \*\*\*: P&lt;0.001

STUDY NO. : 0038

SEX	DOSE LEVEL (PPM)	NQ. OF ANIMALS	Ovary L. (%)	Heart (%)	Lung R (%)	LUNG L (%)	KIDNEY R (%)
FEMALE	0	10	0.030 ± 0.004	0.323 ± 0.016	0.263 ± 0.012	0.155 ± 0.011	0.310 ± 0.012
	62.5	10	0.026 ± 0.004*	0.321 ± 0.021	0.271 ± 0.019	0.159 ± 0.011	0.316 ± 0.018
	125	10	0.029 ± 0.005	0.308 ± 0.007*	0.262 ± 0.014	0.151 ± 0.009	0.314 ± 0.009
	250	10	0.025 ± 0.004**	0.315 ± 0.033	0.261 ± 0.016	0.152 ± 0.012	0.331 ± 0.012***
	500	10	0.028 ± 0.002	0.324 ± 0.024	0.285 ± 0.030	0.161 ± 0.011	0.388 ± 0.029**
	1000	10	0.029 ± 0.004	0.323 ± 0.011	0.302 ± 0.018***	0.175 ± 0.013**	0.422 ± 0.022**

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0038

WEFK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (%)	SPLEEN (%)	LIVER (%)	BRAIN (%)
FEMALE	0	10	0.312 ± 0.016	0.218 ± 0.011	2.355 ± 0.107	0.941 ± 0.052
	62.5	10	0.318 ± 0.020	0.223 ± 0.013	2.435 ± 0.304	0.952 ± 0.048
	125	10	0.309 ± 0.010	0.210 ± 0.011	2.292 ± 0.090	0.934 ± 0.035
	250	10	0.334 ± 0.014**	0.218 ± 0.015	2.351 ± 0.074	0.953 ± 0.061
	500	10	0.367 ± 0.025***	0.232 ± 0.013*	2.410 ± 0.136	1.022 ± 0.072**
	1000	10	0.439 ± 0.021***	0.258 ± 0.017***	2.406 ± 0.094	1.237 ± 0.059***

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



付録表Ⅲ－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）

付録表Ⅲ-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. : 0038

SEX : MALE

DOSE LEVEL (PPM)		0				62.5				125				250				500			
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
LIVER	GRANULATION	0	6	0	0	0	6	0	0	0	5	0	0	0	7	0	0	0	6	0	0
KIDNEY	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0
	DEGENERATION	0	2	0	0	0	4	0	0	0	2	0	0	0	2	0	0	0	4	0	0
	DEGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	PROTEIN CAST	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SPLEEN	DEPOSIT OF PIGMENT	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0
PANCREAS	PANCREATITIS	0	1	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	2	0	0
HEART	GRANULATION	0	4	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0	2	0	0
HARDERIAN GLAND	GRANULATION	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0038

SEX : MALE

DOSE LEVEL (PPM)		1000			
NO. OF EXAMINED ANIMALS		10			
ORGAN	FINDINGS	T	1	2	3
LIVER	GRANULATION	0	4	0	0
KIDNEY	DEPOSIT OF PIGMENT	0	9	1	0
	REGENERATION	0	1	0	0
	DEGENERATION	0	5	0	0
	PROTEIN CAST	0	1	0	0
SPLEEN	DEPOSIT OF PIGMENT	0	0	10	0
PANCREAS	PANCREATITIS	0	0	0	0
HEART	GRANULATION	0	0	0	0
HARDERIAN GLAND	GRANULATION	0	0	0	0
+ : BENIGN		* : MALIGNANT		T : TUMOR	
		1 : SLIGHT		2 : MODERATE	
				3 : MARKED	

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0038

SEX : FEMALE

DOSE LEVEL (PPM)		0				62.5				125				250				500			
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
LIVER	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GRANULATION	0	8	0	0	0	7	0	0	0	8	0	0	0	9	0	0	0	7	0	0
KIDNEY	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	0	1	9	0
	DEPOSIT OF CALCIUM	0	3	0	0	0	4	0	0	0	1	0	0	0	3	0	0	0	2	0	0
	REGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	CYST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	REGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
UTERUS	DEPOSIT OF PIGMENT	0	5	0	0	0	6	0	0	0	8	0	0	0	4	0	0	0	2	0	0
SPLEEN	DEPOSIT OF PIGMENT	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0
THYMUS	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYMPH NODES																					
	GRANULATION	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PANCREAS	PANCREATITIS	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0
HEART	GRANULATION	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADRENAL	DEPOSIT OF PIGMENT	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0
HADDERIAN GLAND																					
	GRANULATION	0	0	0	0	0	2	2	0	0	2	2	0	0	3	1	0	0	2	0	0
NASAL CAVITY																					
	DEPOSIT OF CALCIUM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONE MARROW																					
	GRANULATION	0	0	0	0	0	1	0	0	0	2	1	0	0	3	0	0	0	1	0	0

+ : BENIGN    # : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0038

SEX : FEMALE

DOSE LEVEL (PPM)		1000			
NO. OF EXAMINED ANIMALS		10			
ORGAN	FINDINGS	T	1	2	3
LIVER	DEPOSIT OF PIGMENT	0	4	0	0
	GRANULATION	0	9	0	0
KIDNEY	DEPOSIT OF PIGMENT	0	1	2	0
	DEPOSIT OF CALCIUM	0	1	0	0
	REGENERATION	0	0	0	0
	CYST	0	0	0	0
	DEGENERATION	0	6	0	0
UTERUS	DEPOSIT OF PIGMENT	0	2	0	0
SPLEEN	DEPOSIT OF PIGMENT	0	0	10	0
THYMUS	DEPOSIT OF PIGMENT	0	2	0	0
LYMPH NODES					
	GRANULATION	0	0	0	0
PANCREAS	PANCREATITIS	0	0	0	0
HEART	GRANULATION	0	1	0	0
ADRENAL	DEPOSIT OF PIGMENT	0	10	0	0
HARDERIAN GLAND					
	GRANULATION	0	1	0	0
NASAL CAVITY					
	DEPOSIT OF CALCIUM	0	0	0	0
BONE MARROW					
	GRANULATION	0	0	0	0

+ : BENIGN    \* : PALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

付録表Ⅲ－１３

肉眼所見・総括表

（ラット・がん原性試験・死亡・瀕死動物）

付録表Ⅲ-13

## 肉眼所見・総括表

(ラット・癌原性試験・死亡・瀕死動物)

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0		64		160		400	
NO. OF EXAMINED ANIMALS		3	6	2	5	3	5	8	5
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
SKIN	ULCER	0	0	0	0	0	1	0	0
HAIR	REDUCED	0	0	0	0	0	1	0	0
SUBCUTANEOUS TISSUE	EDEMA	0	1	0	0	0	1	0	0
	MASS	0	1	0	2	0	1	0	0
	YELLOWISH	0	1	0	0	0	0	0	1
SOFT TISSUE	NODULE	0	0	1	0	1	0	0	0
FACE	MASS	0	0	0	1	0	0	0	0
EYE	SCARPED	0	0	0	0	0	1	0	0
	NODULE	0	0	0	0	0	0	0	1
	WHITE	1	0	0	0	0	0	1	0
HINDLIMB	EDEMA	0	0	0	0	0	1	0	0
AUDITORY	NODULE	0	0	0	0	0	0	0	1
ORAL CAVITY									
	FLUID	0	0	0	0	0	0	1	0
BRAIN	HEMORRHAGE	0	0	1	0	0	1	0	0
	RED PATCH/ZONE	0	1	0	0	1	0	0	0
PITUITARY	ENLARGED	2	2	1	0	0	1	2	1
	NODULE	0	0	0	0	1	0	0	1
	RED PATCH/ZONE	0	0	0	1	0	0	0	0
	BLACK PATCH/ZONE	0	0	0	0	0	1	0	0
SPINAL CORD									
	HEMORRHAGE	0	0	0	1	0	0	0	0
MUSCLE	MASS	0	0	0	0	1	0	0	0
CRANIAL BONE									
	THICK	1	0	0	0	0	0	0	0
RIB	NODULE	0	0	0	0	0	0	1	0
WHOLE BODY	ANEMIC	0	0	0	1	0	0	0	0
	YELLOWISH	0	0	0	0	0	0	0	1
	WASTING	0	0	0	1	0	0	0	0
	AUTOLYSIS	3	0	2	0	3	0	8	0
THYROID	ENLARGED	0	0	0	0	0	0	0	1
	REDDISH	0	0	0	0	0	0	1	1
THYMUS	ENLARGED	0	0	0	0	1	0	0	0
	REDUCED	0	0	0	0	0	1	1	0
	RED PATCH/ZONE	1	0	0	0	0	0	0	0
TRACHEA	FLUID	1	0	0	0	0	0	0	0
LUNG	HEMORRHAGE	0	0	0	1	0	0	0	0
	CONGESTION	0	1	0	0	0	1	1	0
	EDEMA	0	0	0	0	1	1	0	0
	REDDISH	1	0	1	0	2	0	2	1
	WHITE PATCH/ZONE	0	1	0	1	0	0	0	0
	RED PATCH/ZONE	0	3	0	1	0	0	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0		64		160		400	
NO. OF EXAMINED ANIMALS		3	6	2	5	3	5	8	5
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
LUNG	COLORLED PATCH/ZONE	0	0	0	0	0	1	0	0
THORACIC CAVITY	FLUID	0	3	1	0	0	1	0	0
MEDIASTINUM	MASS	0	0	0	0	0	0	1	0
HEART SAC	HEMOPRRHAGE	0	0	0	0	0	0	1	0
HEART	WHITE	0	0	0	0	0	0	0	1
ESOPHAGUS	FLUID	0	0	0	0	0	0	1	0
PARATHYROID	ENLARGED	0	0	0	0	0	1	0	1
ABDOMINAL CAVITY	MASS	0	0	0	0	0	0	1	0
	FLUID	0	0	0	1	1	0	0	1
LIVER	ENLARGED	0	0	1	0	1	0	0	0
	GRANULAR	0	0	0	0	0	1	0	0
	NODULE	0	0	0	0	0	0	1	2
	WHITE	0	0	0	0	0	0	0	1
	YELLOWISH	0	0	0	1	1	0	0	0
	COLORLED PATCH/ZONE	0	0	0	0	0	0	1	1
SPLEEN	ENLARGED	0	3	1	3	2	1	1	2
	DEFORMED	0	0	0	0	0	0	1	0
	NODULE	0	0	0	0	0	0	1	0
	WHITE PATCH/ZONE	0	0	0	1	0	0	0	0
	BLACK PATCH/ZONE	0	0	0	0	0	0	1	0
STOMACH	FLUID	0	0	0	0	0	0	1	0
FORESTOMACH	RUPTURE	0	0	0	0	0	1	0	0
	ULCER	0	0	0	1	1	1	3	1
	ERUSION	0	0	0	0	0	0	0	1
	THICK	0	1	0	0	0	1	0	0
	YELLOWISH	0	1	0	0	0	0	0	0
GLANDULAR STOMACH	NODULE	0	0	0	0	0	0	0	1
	ULCER	0	2	0	1	0	2	1	2
	FLUID	1	1	0	0	0	0	0	1
	THICK	0	1	1	2	2	2	1	2
	REDDISH	0	0	0	0	0	0	1	0
	YELLOWISH	0	1	0	0	0	0	1	0
	RED PATCH/ZONE	0	1	0	0	1	0	2	0
PANCREAS	NODULE	0	0	0	0	0	0	1	0
SMALL INTESTINE	DILATED	0	0	0	0	0	0	0	1
	FLUID	0	0	0	0	0	0	1	0
DUODENUM	REDDISH	0	0	0	0	0	0	1	0

D: DEAD M: MORIBUND



TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0		64		160		400	
NO. OF EXAMINED ANIMALS		3	6	2	5	3	5	8	5
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
DUODENUM	BLACK PATCH/ZONE	0	0	0	0	0	0	1	0
CECUM	DILATED	0	0	0	0	0	0	0	1
PERITONEUM	CYST	0	0	0	0	0	1	0	0
ADRENAL	ENLARGED	0	0	0	1	0	0	0	1
	REDDISH	0	0	0	0	0	0	1	0
KIDNEY	GRANULAR	0	1	0	1	1	3	2	3
	NODULE	0	0	0	0	0	0	1	0
	WHITE PATCH/ZONE	0	0	1	1	0	0	0	0
URINARY BLADDER	HEMORRHAGE	0	0	0	1	0	0	0	0
	DILATED	0	0	0	0	0	0	1	0
TESTIS	EDEMA	0	1	0	0	0	0	0	0
	ATROPHIC	0	2	0	2	1	2	1	2
	MISSING	0	0	0	0	0	0	0	1
	NODULE	1	5	1	3	2	2	3	4
SEMINAL VESICLE	ATROPHIC	0	0	0	0	0	0	1	0
PREPUTIAL GLAND	NODULE	0	0	0	0	1	0	0	0
LYMPH NODE	ENLARGED	0	2	1	1	3	0	0	0
ARTERY	INDURATION	0	0	0	0	0	1	1	1

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : FEMALE

DOSE LEVEL (PPM)		0		64		160		400	
NO. OF EXAMINED ANIMALS		5	4	5	6	4	6	2	6
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
SKIN	NODULE	1	0	0	0	0	0	0	0
SUBCUTANEOUS TISSUE	MASS	0	0	1	1	0	2	0	2
	YELLOWISH	0	0	0	0	1	2	0	0
SOFT TISSUE	NODULE	0	0	0	0	0	0	1	0
EYE	SCARRED	0	0	0	0	0	1	0	0
	WHITE	0	0	1	0	0	1	0	2
	REDDISH	0	0	0	0	0	1	0	0
HINDLIMB	NODULE	0	1	0	0	0	0	0	0
HARDERIAN GLAND	RED PATCH/ZONE	0	0	0	1	0	0	0	0
AUDITORY	NODULE	0	1	0	0	0	0	0	0
BRAIN	HEMORRHAGE	0	0	1	0	0	0	0	0
	RED PATCH/ZONE	1	0	0	0	0	0	0	0
CEREBELLUM	HEMORRHAGE	0	1	0	0	0	0	0	0
PITUITARY	ENLARGED	2	0	2	5	2	2	0	3
	MASS	0	1	0	0	0	0	0	0
	WHITE PATCH/ZONE	1	0	0	0	0	0	0	0
	RED PATCH/ZONE	1	1	1	0	1	3	0	0
SPINAL CORD	HEMORRHAGE	0	0	1	0	0	0	0	0
MUSCLE	MASS	0	0	0	0	0	0	1	0
WHOLE BODY	YELLOWISH	0	0	0	0	0	1	0	0
	AUTOLYSIS	5	0	5	0	3	0	1	0
THYMUS	REDUCED	0	0	0	1	0	0	0	0
LUNG	HEMORRHAGE	0	1	1	0	0	0	0	0
	CONGESTION	2	0	0	0	0	0	0	0
	EDEMA	0	0	0	0	0	0	1	0
	NODULE	0	0	0	0	1	0	0	1
	ADHESION	1	0	0	0	0	0	0	0
	REDDISH	0	0	4	0	1	0	0	0
	BROWN	0	0	0	0	1	0	0	0
	WHITE PATCH/ZONE	1	0	0	0	0	1	0	0
	RED PATCH/ZONE	0	0	0	0	0	1	0	0
THORACIC CAVITY	FLUID	0	0	0	0	1	0	0	1
ATRIUM	WHITE	0	0	0	0	0	0	0	1
ABDOMINAL CAVITY	HEMORRHAGE	1	0	1	0	0	0	1	0
LIVER	ENLARGED	0	0	0	0	0	0	1	0
	GRANULAR	0	0	0	0	0	1	0	0
	NODULE	2	0	0	0	0	1	1	0
	PALE	1	0	0	0	0	1	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : FEMALE

DOSE LEVEL (PPM)		0		64		160		400	
NO. OF EXAMINED ANIMALS		5	4	5	6	4	6	2	6
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
LIVER	YELLOWISH	0	1	0	0	0	0	0	0
	WHITE PATCH/ZONE	1	1	1	0	0	0	0	1
	COLORED PATCH/ZONE	0	0	0	0	0	1	1	0
	HERNIATION	1	0	1	1	0	1	0	0
SPLEEN	ENLARGED	2	1	2	0	0	4	1	0
	DEFORMED	0	0	0	0	0	1	0	0
	WOUND	1	0	0	0	0	0	0	0
FORESTOMACH	RUPTURE	0	0	0	0	1	0	0	0
	ULCER	0	0	0	4	1	3	0	0
	THICK	1	0	0	0	0	1	0	0
GLANDULAR STOMACH	ULCER	0	0	2	0	2	2	0	1
	FLUID	0	1	0	0	0	0	0	0
	THICK	1	0	1	2	0	3	0	2
PANCREAS	NODULE	1	0	0	0	0	0	0	0
SMALL INTESTINE	ADHESION	0	0	0	1	0	0	0	0
JEJUNUM	DILATED	0	0	0	1	0	0	0	0
	REDDISH	0	0	0	1	0	0	0	0
MESENTERIUM	NODULE	0	0	0	1	0	0	0	0
LARGE INTESTINE	ADHESION	0	0	0	1	0	0	0	0
ADRENAL	ENLARGED	2	1	1	0	0	0	0	0
	REDDISH	0	0	1	0	0	0	0	0
	WHITE PATCH/ZONE	0	0	0	0	0	1	0	0
KIDNEY	GRANULAR	0	0	0	1	1	0	0	4
	NODULE	0	1	0	0	0	1	0	0
OVARY	CYST	0	0	0	0	0	1	0	0
	FLUID	0	0	0	2	0	0	0	0
	REDDISH	1	0	0	0	0	0	0	0
UTERUS	ENLARGED	0	0	0	0	0	0	1	0
	NODULE	0	0	0	0	2	0	0	1
	BLACK	1	0	0	0	0	0	0	0
	DILATED LUMEN	0	0	0	0	0	1	0	0
VAGINA	NODULE	0	1	0	0	0	0	0	0
	FLUID	0	0	1	0	0	0	0	0
	DILATED LUMEN	0	0	0	2	2	0	0	0
LYMPH NODE	ENLARGED	0	0	1	0	1	1	0	0
	NODULE	0	0	0	0	0	1	0	0

D: DEAD M: MORIBUND

付録表Ⅲ－１４

肉眼所見・総括表  
(ラット・がん原性試験・定期解剖動物)

付録表Ⅲ - 1 4

## 肉眼所見・総括表

(ラット・癌原性試験・定期解剖動物)

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0	64	160	400
NO. OF EXAMINED ANIMALS		41	43	42	37
ORGAN	FINDINGS				
SKIN	NODULE	3	4	4	1
	ULCER	0	0	1	0
SUBCUTANEOUS TISSUE	MASS	6	8	8	6
	NODULE	1	2	0	0
	CYST	0	1	0	2
SOFT TISSUE	NODULE	8	3	5	4
	YELLOWISH	0	1	0	0
FACE	MASS	0	0	1	0
EYE	WHITE	1	2	1	1
	REDDISH	1	0	0	2
NOSE	NODULE	1	0	0	0
TAIL	SWOLEN	0	0	1	0
AUDITORY	FLUID	0	0	0	1
ORAL CAVITY	NODULE	2	0	0	1
PITUITARY	ENLARGED	6	9	5	5
	NODULE	7	3	5	3
	RED PATCH/ZONE	1	3	5	2
ARTICULA	SWOLEN	0	0	1	0
WHOLE BODY	ANEMIC	0	2	2	0
	WASTING	0	1	0	0
	AUTOLYSIS	0	1	0	0
THYROID	ENLARGED	5	3	2	3
	MASS	1	0	0	1
	NODULE	0	3	1	3
	BLACK PATCH/ZONE	0	0	0	1
LUNG	NODULE	1	3	5	1
	REDDISH	0	1	0	0
	WHITE PATCH/ZONE	0	0	0	1
	BLACK PATCH/ZONE	0	1	0	0
THORACIC CAVITY	FLUID	1	4	2	0
ATRIUM	DILATED	0	1	0	0
TONGUE	NODULE	1	0	0	0
PARATHYROID	ENLARGED	0	1	0	1
ABDOMINAL CAVITY	FLUID	1	0	0	0
LIVER	INFARCT	0	0	1	0
	ENLARGED	1	2	0	0
	SWOLEN	0	1	1	0
	NODULE	2	3	4	1

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0	64	160	400
NO. OF EXAMINED ANIMALS		41	43	42	37
ORGAN	FINDINGS				
LIVER	CYST	0	0	0	1
	ADHESION	1	0	0	0
	YELLOWISH	0	2	0	0
	WHITE PATCH/ZONE	1	0	1	0
	COLORED PATCH/ZONE	2	3	2	0
SPLEEN	HERNIATION	0	0	2	1
	INFARCT	1	1	1	1
	ENLARGED	1	4	2	1
	NODULE	0	1	2	1
	COLORED PATCH/ZONE	1	0	0	0
GLANDULAR STOMACH	ULCEP	0	1	0	0
PANCREAS	NODULE	7	5	5	3
LARGE INTESTINE	NODULE	0	0	1	0
PERITONEUM	NODULE	1	4	5	0
RETROPERITONEUM	MASS	0	0	0	1
ADRENAL	ENLARGED	3	6	2	3
	MASS	0	1	0	0
KIDNEY	ENLARGED	0	1	0	0
	GRANULAR	40	38	39	33
TESTIS	HEMORRHAGE	0	1	0	0
	ENLARGED	16	19	19	15
	ATROPHIC	11	13	13	13
	NODULE	39	37	39	35
PROSTATE	CYST	0	0	2	0
	NODULE	0	0	0	1
SEMINAL VESICLE	DILATED	0	1	0	0
Lymph Node	ENLARGED	6	2	4	2

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0059

SEX : FEMALE

DOSE LEVEL (PPM)		0	64	160	400
NO. OF EXAMINED ANIMALS		41	39	40	42
ORGAN	FINDINGS				
SKIN	MASS	0	1	0	0
	NODULE	0	0	0	1
	WOUND	0	1	0	0
HAIR	REDUCED	0	1	0	1
SUBCUTANEOUS TISSUE	MASS	13	4	7	13
	NODULE	1	0	0	0
	YELLOWISH	0	3	0	1
SOFT TISSUE	NODULE	0	2	3	3
	MASS	1	0	0	0
FACE	WHITE	1	1	0	3
EYE	SMALL	0	0	0	1
	NODULE	0	0	1	0
TEETH	NODULE	1	0	0	0
AUDITORY	NODULE	1	0	0	0
ORAL CAVITY	NODULE	1	0	0	0
	ENLARGED	1	3	5	5
PITUITARY	NODULE	11	10	12	0
	RED PATCH/ZONE	5	7	5	8
WHOLE BODY	COLORLESS PATCH/ZONE	0	0	0	1
	ANEMIC	0	6	0	0
YELLOWISH	WASTING	0	1	0	0
	WASTING	2	3	0	4
THYROID	ENLARGED	4	0	1	0
	MASS	0	0	0	1
LUNG	NODULE	2	2	0	0
	CONGESTION	1	0	0	0
THORACIC CAVITY	NODULE	1	2	0	1
	RED PATCH/ZONE	0	1	0	0
MEDIASTINUM	FLUID	1	2	1	1
	MASS	0	0	1	0
PLEURAL	NODULE	0	0	1	0
	WHITE PATCH/ZONE	0	0	2	0
VENTRICLE	WHITE	0	1	0	0
ATRIUM	NODULE	0	0	1	0
TONGUE	ENLARGED	0	0	0	2
PARATHYROID	ENLARGED	2	0	0	1
	SWOLLEN	0	0	0	1
LIVER	NODULAR	0	1	0	2
	NODULE	1	2	2	1

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0059

SEX : FEMALE

DOSE LEVEL (PPM)		0	64	160	400
NO. OF EXAMINED ANIMALS		41	39	40	42
ORGAN	FINDINGS				
LIVER	CYST	0	0	0	1
	YELLOWISH	0	1	0	0
	BROWN	1	0	0	0
	WHITE PATCH/ZONE	1	0	0	1
	RED PATCH/ZONE	2	4	1	3
	COLORED PATCH/ZONE	1	0	0	2
	HERNIATION	3	4	4	2
	ROUGH	0	0	0	2
SPLEEN	ENLARGED	4	8	2	3
	ATROPHIC	0	0	0	1
	MASS	0	1	0	0
	NODULE	1	0	0	1
PANCREAS	NODULE	5	5	4	2
MESENTERIUM					
	NODULE	0	0	1	0
LARGE INTESTINE					
	NODULE	0	0	1	0
ASCENDING COLON					
	NODULE	1	0	0	0
PERITONEUM	NODULE	0	1	0	0
ADRENAL	ENLARGED	1	1	1	4
KIDNEY	GRANULAR	15	17	25	33
	CYST	0	1	0	0
	COLORED PATCH/ZONE	0	1	0	0
OVARY	CYST	1	0	1	2
	FLUID	1	0	1	0
UTERUS	SWOLLEN	0	1	0	0
	NODULE	6	5	4	10
	DILATED LUMEN	0	0	1	1
VAGINA	NODULE	0	0	1	0
LYMPH NODE					
	ENLARGED	2	6	4	1



付録表Ⅲ－１５

臓器重量（実重量）・総括表  
（ラット・がん原性試験）

付録表Ⅲ - 15

臓器重量（実重量）・総括表  
（ラット・癌原性試験）

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)		ADRENAL R (G)	ADRENAL L (G)	TESTIS R (G)	TESTIS L (G)
MALE	CONTROL	41	412 ±	44	0.038 ± 0.005	0.056 ± 0.075	2.332 ± 1.138	2.559 ± 1.508
	64	43	407 ±	80	0.045 ± 0.029	0.072 ± 0.110	2.553 ± 1.469	2.298 ± 1.357
	160	42	392 ±	35 *	0.037 ± 0.006	0.043 ± 0.012	2.494 ± 1.344	2.609 ± 1.155
	400	37	354 ±	43 ***	0.037 ± 0.011	0.041 ± 0.016	2.278 ± 1.202	2.695 ± 1.825

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	HEART <sup>a</sup> (G)	LUNG P (G)	LUNG L (G)	KIDNEY R (G)	KIDNEY L (G)
MALE	CONTROL	41	1.280 ± 0.112	0.974 ± 0.104	0.513 ± 0.058	1.513 ± 0.139	1.515 ± 0.129
	64	43	1.298 ± 0.153	1.046 ± 0.301	0.546 ± 0.145	1.676 ± 0.380*	1.675 ± 0.384*
	160	42	1.243 ± 0.116	1.003 ± 0.174	0.533 ± 0.101	1.583 ± 0.178*	1.583 ± 0.181
	400	37	1.097 ± 0.098***	0.887 ± 0.064***	0.480 ± 0.036***	1.622 ± 0.222*	1.620 ± 0.228*

SIGNIFICANT DIFFERENCES: \* : P ≤ 0.05 \*\* : P ≤ 0.01 \*\*\* : P ≤ 0.001

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	SPLFEE (G)	LIVER (G)	BRAIN (G)
MALE	CONTROL	41	1.639 ± 3.215	13.101 ± 2.251	2.048 ± 0.042
	64	43	1.560 ± 2.043	13.528 ± 2.085	2.059 ± 0.058
	160	42	1.628 ± 1.795	13.365 ± 1.792	2.045 ± 0.048
	400	37	1.102 ± 0.350	12.355 ± 1.662	2.024 ± 0.051*

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)		ADRENAL R (G)	ADRENAL L (G)	OVARY R (G)	OVARY L (G)
FEMALE	CONTROL	41	313 ±	48	0.037 ± 0.006	0.041 ± 0.007	0.071 ± 0.113	0.059 ± 0.009
	64	39	299 ±	45	0.037 ± 0.005	0.086 ± 0.286	0.055 ± 0.011	0.064 ± 0.013
	160	40	305 ±	44	0.037 ± 0.005	0.047 ± 0.032	0.068 ± 0.101	0.058 ± 0.010
	400	42	241 ±	39 ***	0.041 ± 0.041	0.039 ± 0.007	0.053 ± 0.010	0.059 ± 0.011

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	HEART (G)	LUNG R (G)	LUNG L (G)	KIDNEY R (G)	KIDNEY L (G)
FEMALE	CONTROL	41	0.989 ± 0.090	0.724 ± 0.137	0.391 ± 0.080	1.047 ± 0.108	1.056 ± 0.113
	64	39	1.051 ± 0.139*	0.773 ± 0.229	0.419 ± 0.127	1.042 ± 0.077	1.056 ± 0.095
	160	40	0.984 ± 0.096	0.697 ± 0.068	0.367 ± 0.040	1.063 ± 0.091	1.076 ± 0.101
	400	42	0.885 ± 0.063***	0.709 ± 0.252	0.383 ± 0.144	1.207 ± 0.163***	1.215 ± 0.186**

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	SPLLEN (G)	LIVER (G)	BRAIN (G)
FEMALE	CONTROL	41	1.261 ± 2.180	8.577 ± 2.041	1.861 ± 0.052
	64	39	1.516 ± 1.792	8.308 ± 0.860	1.863 ± 0.051
	160	40	0.769 ± 0.370	8.243 ± 1.053	1.854 ± 0.048
	400	42	1.012 ± 1.136	8.293 ± 1.362	1.837 ± 0.055

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

付録表Ⅲ－１６

臓器重量（体重比）・総括表  
（ラット・がん原性試験）



付録表Ⅲ - 16

## 臓器重量(体重比)・総括表

(ラット・癌原性試験)

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)		ADRENAL R (%)	ADRENAL L (%)	TESTIS R (%)	TESTIS L (%)
MALE	CONTROL	41	412 ±	44	0.009 ± 0.001	0.015 ± 0.028	0.560 ± 0.255	0.615 ± 0.356
	64	43	407 ±	80	0.012 ± 0.008	0.018 ± 0.025	0.625 ± 0.361	0.569 ± 0.327
	160	42	392 ±	358	0.010 ± 0.003	0.011 ± 0.004	0.633 ± 0.335	0.663 ± 0.288
	400	37	354 ±	63***	0.011 ± 0.0048	0.012 ± 0.005	0.641 ± 0.326	0.750 ± 0.478

SIGNIFICANT DIFFERENCE: \* : P&lt;0.05 \*\* : P&lt;0.01 \*\*\* : P&lt;0.001

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	HEART (%)	LUNG R (%)	LUNG L (%)	KIDNEY R (%)	KIDNEY L (%)
MALE	CONTROL	41	0.315 ± 0.049	0.240 ± 0.045	0.126 ± 0.024	0.373 ± 0.062	0.373 ± 0.062
	64	43	0.330 ± 0.077	0.268 ± 0.107	0.140 ± 0.051	0.440 ± 0.219	0.440 ± 0.218
	160	42	0.320 ± 0.043	0.260 ± 0.066	0.138 ± 0.039	0.410 ± 0.081*	0.410 ± 0.085*
	400	37	0.314 ± 0.038	0.254 ± 0.028	0.138 ± 0.018*	0.469 ± 0.109***	0.468 ± 0.109**

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	SPLFEN (%)	LIVER (%)	BRAIN (%)
MALE	CONTROL	41	0.411 ± 0.075	3.205 ± 0.615	0.504 ± 0.065
	64	43	0.406 ± 0.624	3.422 ± 0.774	0.525 ± 0.105
	160	42	0.428 ± 0.518	3.443 ± 0.593	0.527 ± 0.061
	400	37	0.312 ± 0.092	3.545 ± 0.649*	0.580 ± 0.071***

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)		ADRENAL R (%)	ADRENAL L (%)	OVARY R (%)	OVARY L (%)
FEMALE	CONTROL	41	313 ±	48	0.012 ± 0.003	0.013 ± 0.002	0.022 ± 0.028	0.019 ± 0.004
	64	39	299 ±	45	0.013 ± 0.003	0.028 ± 0.089	0.019 ± 0.004	0.022 ± 0.004*
	160	40	305 ±	44	0.012 ± 0.003	0.016 ± 0.014	0.022 ± 0.034	0.019 ± 0.004
	400	42	241 ±	39***	0.017 ± 0.017*	0.017 ± 0.005***	0.022 ± 0.005	0.025 ± 0.006**

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	HEART (%)	LUNG R (%)	LUNG L (%)	KIDNEY R (%)	KIDNEY L (%)
FEMALE	CONTROL	41	0.324 ± 0.067	0.240 ± 0.078	0.129 ± 0.044	0.343 ± 0.073	0.346 ± 0.074
	64	39	0.364 ± 0.106	0.270 ± 0.121	0.147 ± 0.068	0.357 ± 0.065	0.361 ± 0.063
	160	40	0.329 ± 0.058	0.233 ± 0.040	0.123 ± 0.023	0.355 ± 0.055	0.359 ± 0.057
	400	42	0.376 ± 0.06****	0.301 ± 0.117**	0.163 ± 0.06***	0.517 ± 0.129***	0.520 ± 0.136**

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0059

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	SPLEEN (%)	LIVER (%)	BRAIN (%)
FEMALE	CONTROL	41	0.446 ± 0.813	2.795 ± 0.804	0.610 ± 0.106
	64	49	0.562 ± 0.699	2.842 ± 0.556	0.638 ± 0.113
	160	40	0.257 ± 0.133	2.736 ± 0.385	0.622 ± 0.104
	400	42	0.428 ± 0.494	3.510 ± 0.743***	0.780 ± 0.120***

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

付録表Ⅲ－１７

病理組織学的所見・総括表  
(ラット・がん原性試験・死亡・瀕死動物)

付録表Ⅲ - 17

## 病理組織学の所見・総括表

(ラット・癌原性試験・死亡・瀕死動物)

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0				64				160				400			
NO. OF EXAMINED ANIMALS		9				7				8				13			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
BRAIN	HEMORRHAGE	0	1	0	0	0	2	0	0	0	1	0	0	0	0	0	0
	NECROSIS	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0
	GLIOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	GLIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	HYALINE BODY	0	4	0	0	0	6	0	0	0	2	0	0	0	7	0	0
SPINAL CORD	HEMORRHAGE	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
LUNG	CONGESTION	0	1	1	0	0	0	1	0	0	0	0	1	0	0	3	1
	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	EDEMA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	METASTASIS	0	1	1	1	0	1	2	0	0	1	1	1	0	0	0	2
	ACCUMULATION OF FOAMY CELLS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	INTERSTITIAL PNEUMONIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
THYROID	ALVEOLITIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	HYPERPLASIA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	+ADENOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	+ADENOCARCINOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	+C-CELL ADENOMA	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	+C-CELL CARCINOMA	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
PARATHYROID	HYPERPLASIA	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
LIVER	NECROSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
	FATTY CHANGE	0	1	2	0	0	1	0	0	0	1	2	1	0	1	3	0
	METASTASIS	0	1	2	0	0	2	1	0	0	1	0	2	0	0	1	1
	HYPERPLASIA, BILE DUCTS	0	1	6	0	0	2	5	0	0	6	1	0	0	6	6	0
	BASOPHILIC FOCI	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	INFARCT	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
KIDNEY	DEPOSIT OF HEMOSIDERIN	0	8	1	0	0	7	0	0	0	8	0	0	0	13	0	0
	HYPERPLASIA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
	TUBULAR NECROSIS	0	0	0	0	0	0	2	0	0	0	1	1	0	0	0	0
	CHRONIC NEPHROPATHY	0	6	1	1	0	3	4	0	0	0	4	2	0	1	4	5
	EDEMA	0	0	0	0	0	1	0	0	0	3	1	0	0	2	0	0
STOMACH	ULCEP	0	1	0	0	0	0	0	0	0	2	1	0	0	2	3	0
	ATROPHY	0	6	0	0	0	6	0	0	0	5	1	0	0	6	1	0
	HYPERKERATOSIS	0	1	0	0	0	1	0	0	0	2	0	0	0	3	0	0
	HYPERPLASIA	0	1	0	0	0	1	0	0	0	1	0	0	0	2	0	0
	MINERALIZATION	0	0	0	0	0	0	0	0	0	0	2	0	0	3	0	0
	EROSION	0	3	0	0	0	2	0	0	0	1	0	0	0	2	0	0
URINARY BLADDER	ULCEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	METASTASIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

+ : BENIGN # : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED



TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0				64				160				400			
NO. OF EXAMINED ANIMALS		9				7				8				13			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
TESTIS	ATROPHY	0	2	0	0	0	0	0	0	0	3	0	0	0	3	0	0
	+INTERSTITIAL CELL TUMOR	7	0	0	0	6	0	0	0	6	0	0	0	10	0	0	0
SEMINAL VESICLE	INFLAMMATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
PROSTATE	HYPERPLASIA	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0
	PROSTATITIS	0	2	5	0	0	2	1	0	0	4	1	0	0	4	4	1
SPLEEN	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	ATROPHY	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0
	DEPOSIT OF HEMOSIDERIN	0	1	3	0	0	1	1	0	0	1	1	0	0	4	6	0
	FIBROSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	HEMATOPHESIS	0	2	0	0	0	1	0	1	0	1	0	1	0	1	3	0
	LEUKEMIA	4	0	0	0	4	0	0	0	2	0	0	0	1	0	0	0
	METASTASIS	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
THYMUS	HEMORRHAGE	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYMPH NODES	GRANULATION	0	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	SARCOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	METASTASIS	0	0	0	1	0	0	1	0	0	0	2	0	0	0	0	0
PANCREATIC ISLET	+ADENOMA	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
PANCREAS	ATROPHY	0	5	0	0	0	2	1	0	0	0	1	0	0	0	2	0
PAROTID GLAND	ATROPHY	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	INFLAMMATION	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
MAMMARY GLAND	HYPERPLASIA	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SKIN	+KERATOCANTHOMA	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
SUBCUTANEOUS TISSUE	ABSCESS	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	SARCOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	+FIBROMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	+HEMANGIOMA	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	MALIGNANT SCHWANNOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
HEART	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	THROMBUS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	NECROSIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	DEPOSIT OF CALCIUM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	FIBROSIS	0	3	2	0	0	6	1	0	0	3	1	2	0	5	6	0
	ENDOCARDITIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTERY	DEPOSIT OF CALCIUM	0	0	0	0	0	1	0	0	0	1	2	0	0	0	4	0
	ARTERITIS	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0
MUSCLE	NECROSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	FIBROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
TONGUE	INFLAMMATION	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0				64				160				400			
NO. OF EXAMINED ANIMALS		0				7				8				13			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
TONGUE	HYPERPLASIA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PITUITARY	CYST	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
	HYPERPLASIA	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	*ADENOMA	4	0	0	0	3	0	0	0	3	0	0	0	6	0	0	0
ADRENAL	METASTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	THROMBUS	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	FATTY CHANGE	0	2	0	1	0	2	0	0	0	2	1	0	0	5	1	0
	DEPOSIT OF CERIOD	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	HYPERPLASIA	0	4	0	0	0	0	0	0	0	3	0	0	0	3	1	0
	METASTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	*PHEOCHROMOCYTOMA	1	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0
	ACCUMULATION OF FOAMY CELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
EYE	ATROPHY RETINA	0	0	3	1	0	0	3	0	0	0	3	0	0	1	7	0
	CATARACT	0	7	2	0	0	3	1	0	0	6	1	0	0	9	4	0
NASAL CAVITY	HEMORRHAGE	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	THROMBUS	0	0	1	1	0	0	2	0	0	1	1	1	0	1	0	0
	EOSINOPHILIC CHANGE	0	6	0	0	0	6	0	0	0	6	0	0	0	10	0	0
	DEPOSIT OF CALCIUM	0	5	0	0	0	4	0	0	0	3	0	0	0	9	0	0
	INFLAMMATION	0	3	0	0	0	4	0	0	0	2	2	0	0	2	2	0
	METAPLASIA	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0
BONE MARROW	ATROPHY	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0
	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	METASTASIS	0	0	2	0	0	0	1	0	0	1	1	0	0	1	0	1
BONE	*OSTEOGENIC SARCOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERITONEUM	GRANULATION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	*MALIGNANT SCHWANNOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : FEMALE

DOSE LEVEL (PPM)		0				64				160				400			
NO. OF EXAMINED ANIMALS																	
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
BRAIN	HEMORRHAGE	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0
	NECROSIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	1	0	0	0	3	0	0	0	0	0	0	0	1	0	0
	HYALINE BODY	0	2	0	0	0	4	0	0	0	6	0	0	0	4	0	0
SPINAL CORD	HEMORRHAGE	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	METASTASIS	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0
LUNG	CONGESTION	0	0	0	2	0	1	1	1	0	0	0	1	0	0	0	0
	EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	METASTASIS	0	2	3	0	0	0	0	2	0	0	3	2	0	1	1	0
	ACCUMULATION OF FOAMY CELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	INTERSTITIAL PNEUMONIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
THYROID	HYPERPLASIA	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0
	*C-CELL ADENOMA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIVER	NECROSIS	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0
	FATTY CHANGE	0	3	0	1	0	4	1	0	0	0	4	0	0	2	1	1
	GRANULATION	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0
	HYPERPLASIA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	*SARCOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	3	0	0	0	0	2	0	0	3	3	0	0	1	0	0
	HYPERPLASIA, BILE DUCTS	0	0	0	0	0	2	1	0	0	2	0	0	0	2	0	0
	EOSINOPHILIC FOCI	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	EOSINOPHILIC FOCI	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0
KIDNEY	DEPOSIT OF HEMOSIDERIN	0	9	0	0	0	10	0	0	0	8	2	0	0	8	0	0
	METASTASIS	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0
	*NEPHROBLASTOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TUBULAR NECROSIS	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	CHRONIC NEPHROPATHY	0	4	1	0	0	4	4	0	0	6	2	1	0	3	1	4
STOMACH	EDEMA	0	1	0	0	0	7	0	0	0	6	0	0	0	1	0	0
	ULCER	0	1	0	0	0	4	2	0	0	2	1	1	0	0	1	0
	ATROPHY	0	7	0	0	0	8	0	0	0	7	0	0	0	6	0	0
	HYPERKERATOSIS	0	2	0	0	0	4	0	0	0	3	0	0	0	2	1	0
	HYPERPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	MINERALIZATION	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
	EROSION	0	3	0	0	0	1	0	0	0	2	0	0	0	2	0	0
UTERUS	CYST	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0
	*POLYP	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0
	*ADENOCARCINOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	*SARCOMA	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
SPLEEN	DEPOSIT OF HEMOSIDERIN	0	1	4	0	0	0	8	1	0	1	3	0	0	3	1	0
	FIBROSIS	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	HEMATOPHESIS	0	1	3	2	0	3	2	0	0	2	0	0	0	1	3	2
	*LEUKEMIA	2	0	0	0	2	0	0	0	6	0	0	0	2	0	0	0
	*ANGIOSARCOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : FEMALE

DOSE LEVEL (PPM)		0				64				160				400			
NO. OF EXAMINED ANIMALS		0				11				10				8			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
THYMUS	HEMORRHAGE	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
LYMPH NODES	METASTASIS	0	0	0	1	0	0	0	1	0	2	1	1	0	0	0	1
PANCREAS	ATROPHY	0	2	0	0	0	2	0	0	0	2	0	0	0	0	0	0
MAMMARY GLAND	INFLAMMATION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	HYPERPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
	+ADENOMA	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
	+FIBROADENOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
SUBCUTANEOUS TISSUE	MESARCOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	+FIBROMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
HEART	THROMBUS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	VACUOLIC CHANGE	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	FIBROSIS	0	6	0	0	0	7	0	0	0	5	0	0	0	2	1	1
	METASTASIS	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
ARTERY	DEPOSIT OF CALCIUM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0
	ARTERITIS	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0
MUSCLE	NECROSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	METASTASIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	MESOTHELIOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
PITUITARY	CYST	0	1	1	0	0	1	0	0	0	2	0	0	0	1	1	1
	HYPERPLASIA	0	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0
	+ADENOMA	4	0	0	0	7	0	0	0	7	0	0	0	4	0	0	0
	RATHKE'S POUCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
ADRENAL	HEMORRHAGE	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	FATTY CHANGE	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0
	HYPERPLASIA	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
	+ADENOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	METASTASIS	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	+PHEOCHROMOCYTOMA	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0
	MALIGNANT PHEOCHROMOCYTOMA	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
OVARY	CYST	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	MALIGNANT GRANULOSA-THECA CELL TUMOR	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
EYE	INFLAMMATION	0	3	0	0	0	2	1	0	0	0	0	0	0	1	0	0
	ATROPHY RETINA	0	1	2	2	0	0	7	0	0	2	5	1	0	0	4	3
	CATARACT	0	6	3	0	0	7	3	0	0	7	2	0	0	5	3	0
NASAL CAVITY	HEMORRHAGE	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	THROMBUS	0	0	2	1	0	0	0	0	0	0	1	1	0	0	1	0
	EOSINOPHILIC CHANGE	0	6	0	0	0	8	0	0	0	8	1	0	0	3	5	0
	DEPOSIT OF CALCIUM	0	2	0	0	0	3	0	0	0	4	0	0	0	0	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE	SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0059

SEX : FEMALE

DOSE LEVEL (PPM)		0				64				160				400				
NO. OF EXAMINED ANIMALS		0				11				10				8				
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	
NASAL CAVITY	INFLAMMATION	0	1	0	0	0	0	0	0	0	0	1	0	0	2	0	0	
	METAPLASIA	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
BONE MARROW	ATROPHY	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
	METASTASIS	0	1	1	0	0	0	1	0	0	4	0	0	0	1	0	0	
BONE	OSTEOSCLEROSIS	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	
ZYMBAI GLAND	SQUAMOUS CELL CARCINOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LACRIMAL GLAND	METASTASIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	

付録表Ⅲ－１８

病理組織学的所見・総括表

（ラット・がん原性試験・定期解剖動物）

付録表Ⅲ - 18

## 病理組織学的所見・総括表

(ラット・癌原性試験・定期解剖動物)

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0				64				160				400			
NO. OF EXAMINED ANIMALS		41				43				42				37			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
BRAIN	HEMORRHAGE	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	DEPOSIT OF CALCIUM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GLIOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	HYALINE BODY	0	24	5	0	0	23	4	0	0	20	1	0	0	21	1	0
SPINAL CORD	GLIOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
LUNG	CONGESTION	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	HYPERPLASIA	0	3	2	0	0	1	3	0	0	1	1	0	0	1	0	0
	METASTASIS	0	0	0	0	0	1	2	0	0	1	2	0	0	0	0	0
	+ALVEOLAR/BRONCHIOLAR ADENOMA	1	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
	+ALVEOLAR/BRONCHIOLAR CARCINOMA	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	ACCUMULATION OF FOAMY CELLS	0	5	0	0	0	1	0	0	0	3	0	0	0	4	0	0
THYROID	ALVEOLITIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	HYPERPLASIA	0	7	1	0	0	4	1	0	0	5	2	0	0	2	0	0
	+ADENOMA	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
	+ADENOCARCINOMA	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	+C-CELL ADENOMA	4	0	0	0	6	0	0	0	4	0	0	0	6	0	0	0
	+C-CELL CARCINOMA	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	ADENOMATOUS GOITER	0	1	2	0	0	0	0	0	0	1	0	0	0	0	2	0
PARATHYROID	HYPERPLASIA	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
LIVER	PELIOSIS-LIKE LESION	0	1	0	0	0	1	0	0	0	0	0	0	0	3	0	0
	NECROSIS	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
	FATTY CHANGE	0	2	1	0	0	5	1	1	0	0	0	0	0	3	0	0
	GRANULATION	0	4	3	0	0	4	1	0	0	5	1	0	0	8	2	0
	HYPERPLASIA	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	+ADENOMA	3	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0
	METASTASIS	0	1	0	0	0	1	1	0	0	3	0	0	0	0	0	0
	+HEPATOCELLULAR CARCINOMA	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	HYPERPLASIA, BILE DUCTS	0	10	31	0	0	13	30	0	0	9	33	0	0	12	25	0
	EOSINOPHILIC FOCI	0	1	0	0	0	1	0	0	0	0	0	0	0	4	0	0
	CLLEAR CELL FOCI	0	6	0	0	0	8	2	0	0	2	1	0	0	4	0	0
	EOSINOPHILIC FOCI	0	1	1	0	0	2	0	0	0	2	2	0	0	3	0	0
KIDNEY	DEPOSIT OF HEMOSIDERIN	0	41	0	0	0	43	0	0	0	42	0	0	0	36	1	0
	CYST	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
	HYPERPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	CHRONIC NEPHROPATHY	0	2	22	17	0	1	12	30	0	1	20	21	0	0	11	26
STOMACH	EDEMA	0	0	0	0	0	0	1	0	0	1	0	0	0	4	0	0
	ULCER	0	0	0	0	0	0	2	0	0	1	0	0	0	1	0	0
	ATROPHY	0	33	1	0	0	34	0	0	0	39	0	0	0	37	0	0
	INFLAMMATION	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	HYPERKERATOSIS	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0
	HYPERPLASIA	0	0	0	0	0	4	0	0	0	2	0	0	0	1	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0				64				160				400			
NO. OF EXAMINED ANIMALS																	
ORGAN	FINDINGS	41 T	1	2	3	43 T	1	2	3	42 T	1	2	3	37 T	1	2	3
STOMACH	DYSPLASIA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	MINERALIZATION	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	EROSION	0	4	1	0	0	3	0	0	0	2	0	0	0	5	0	0
COLON	W MALIGNANT SCHWANNOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
URINARY BLADDER	+PAPILLOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
TESTIS	ATROPHY	0	4	0	0	0	2	0	0	0	3	0	0	0	7	0	0
	CYST	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	+INTERSTITIAL CELL TUMOR	40	0	0	0	41	0	0	0	41	0	0	0	37	0	0	0
SEMINAL VESICLE	INFLAMMATION	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROSTATE	CYST	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	HYPERPLASIA	0	12	4	1	0	8	8	1	0	14	4	0	0	11	6	0
	PROSTATITIS	0	11	10	1	0	13	11	3	0	16	14	0	0	10	13	2
SPLEEN	DEPOSIT OF HEMOSIDERIN	0	30	1	0	0	26	3	0	0	26	0	0	0	30	4	0
	FIBROSIS	0	0	2	0	0	2	1	0	0	2	1	0	0	0	0	0
	HEMATOPOIESIS	0	33	0	0	0	34	1	1	0	25	4	0	0	21	0	0
	WLEUKEMIA	1	0	0	0	4	0	0	0	3	0	0	0	0	0	0	0
	+HEMANGIOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	WANGIOSARCOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
LYMPH NODES	GRANULATION	0	7	1	0	0	6	0	0	0	8	0	0	0	2	3	0
	METASTASIS	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	LYMPHADENITIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
PANCREATIC ISLET	HYPERPLASIA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	+ADENOMA	4	0	0	0	4	0	0	0	8	0	0	0	5	0	0	0
	WADENOCARCINOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
EXOCRINE PANCREAS	+ADENOMA	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
PANCREAS	ATROPHY	0	17	3	0	0	16	0	1	0	13	0	0	0	15	2	0
SALIVARY GLAND	INFLAMMATION	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
MAMMARY GLAND	HYPERPLASIA	0	2	0	0	0	2	0	0	0	0	0	0	0	2	1	0
	+ADENOMA	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	+FIBROADENOMA	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
SKIN	INFLAMMATION	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	+PAPILLOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	+ADENOMA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	+TRICHOEPITHELIOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	+KERATOACANTHOMA	1	0	0	0	4	0	0	0	5	0	0	0	3	0	0	0

+ : BENIGN    W : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED



TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPP)		0				64				160				400			
NO. OF EXAMINED ANIMALS																	
ORGAN	FINDINGS	41	43	42	37	41	43	42	37	41	43	42	37	41	43	42	37
		T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
SURCUTANEOUS TISSUE																	
	ABSCESS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	FIBROSIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	+FIBROMA	4	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
	+LIPOMA	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
	+HEMANGIOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
HEART	FIBROSIS	0	17	8	0	0	28	13	0	0	32	7	0	0	24	7	0
ARTERY	DEPOSIT OF CALCIUM	0	7	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	METAPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	ARTERITIS	0	3	0	0	0	9	5	0	0	6	0	0	0	13	2	0
PITUITARY	ANGIECTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CYST	0	1	0	0	0	3	0	0	0	2	0	0	0	1	1	0
	HYPERPLASIA	0	15	0	0	0	5	0	0	0	3	0	0	0	6	0	0
	+ADENOMA	23	0	0	0	27	0	0	0	20	0	0	0	20	0	0	0
	RATHKE'S POUCH	0	1	0	0	0	3	0	0	0	1	0	0	0	0	0	0
ADRENAL	CONGESTION	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	FATTY CHANGE	0	7	1	0	0	13	2	0	0	11	0	0	0	5	0	0
	DEPOSIT OF CERIOD	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	HYPERPLASIA	0	16	0	0	0	12	2	0	0	12	0	0	0	7	0	0
	DYSPLASIA	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	+ADENOMA	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	MACROPHAGE	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	+PHEOCHROMOCYTOMA	7	0	0	0	9	0	0	0	8	0	0	0	7	0	0	0
	+MALIGNANT PHEOCHROMOCYTOMA	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
	ACCUMULATION OF FOAMY CELLS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
EYE	INFLAMMATION	0	0	0	0	0	2	0	0	0	0	0	0	0	2	1	0
	ATROPHY RETINA	0	17	5	4	0	14	12	1	0	12	17	2	0	8	14	6
	CATARACT	0	36	5	0	0	38	4	0	0	40	2	0	0	25	12	0
HARDERIAN GLAND	INFLAMMATION	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0
NASAL CAVITY	THROMBUS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	EOSINOPHILIC CHANGE	0	37	1	0	0	38	3	0	0	35	1	0	0	30	5	0
	DEPOSIT OF CALCIUM	0	13	0	0	0	15	0	0	0	14	0	0	0	16	0	0
	INFLAMMATION	0	15	14	2	0	13	12	1	0	24	5	0	0	11	9	1
	METAPLASIA	0	13	0	0	0	14	2	0	0	15	0	0	0	11	0	0
	DYSPLASIA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NASOPHARYNX	INFLAMMATION	0	2	0	0	0	1	0	0	0	0	0	0	0	1	0	0
TOOTH	INFLAMMATION	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
BONE MARROW	ATROPHY	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	GRANULATION	0	3	1	0	0	1	0	0	0	3	0	0	0	4	0	0

+ : BENIGN

\* : MALIGNANT

T : TUMOR

1 : SLIGHT

2 : MODERATE

3 : MARKED

TABLE		SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

STUDY NO. : 0059

SEX : MALE

DOSE LEVEL (PPM)		0				64				160				400			
NO. OF EXAMINED ANIMALS		41				43				42				37			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
BONE MARROW																	
	FIBROSIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	HISTIOCYTOSIS	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0
PERITONEUM	GRANULATION	0	7	0	0	0	6	0	0	0	5	0	0	0	4	0	0
	MESOTHELIOMA	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
PRUPUTIAL GLAND	+ADENOMA	1	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0
ZYMBAL GLAND	+PAPILLOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
LACRIMAL GLAND	LYMPHOCYTIC INFILTRATION	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
+ : BENIGN    * : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED																	

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0059

SEX : FEMALE

DOSE LEVEL (PPH)		0				64				160				400			
NO. OF EXAMINED ANIMALS																	
ORGAN	FINDINGS	41	1	2	3	30	1	2	3	40	1	2	3	42	1	2	3
BRAIN	METASTASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	DISAPPEARED	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	HYALINE BODY	0	25	2	0	0	21	2	0	0	26	0	0	0	25	2	0
SPINAL CORD	HEMORRHAGE	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
LUNG	HYPERPLASIA	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	3	1	0	0	2	0	0	0	0	0	0	0	1	0
	+ALVEOLAR/BRONCHIOLAR ADENOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	ALVEOLAR/BRONCHIOLAR CARCINOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	ACCUMULATION OF FOAMY CELLS	0	3	0	0	0	4	0	0	0	4	0	0	0	5	1	0
	INTERSTITIAL PNEUMONIA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
THYROID	HYPERPLASIA	0	4	0	0	0	2	1	0	0	5	0	0	0	1	1	0
	+ADENOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	+C-CELL ADENOMA	4	0	0	0	3	0	0	0	2	0	0	0	2	0	0	0
	MC-CELL CARCINOMA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ADENOMATOUS GOITER	0	0	0	0	0	2	0	0	0	1	1	0	0	1	1	0
PARATHYROID	HYPERPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
LIVER	PELIOSIS-LIKE LESION	0	1	0	0	0	1	1	0	0	0	0	0	0	4	0	0
	NECROSIS	0	2	0	0	0	2	1	0	0	1	1	0	0	1	1	0
	FATTY CHANGE	0	0	0	0	0	0	3	0	0	1	0	0	0	2	2	0
	GRANULATION	0	13	2	1	0	12	6	1	0	15	8	1	0	11	7	0
	HYPERPLASIA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	HEMATOPOTESIS	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0
	+ADENOMA	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	METASTASIS	0	1	1	1	0	4	2	0	0	2	0	0	0	2	1	0
	HYPERPLASIA, BILE DUCTS	0	5	0	0	0	6	0	0	0	8	0	0	0	5	0	0
	EOSINOPHILIC FOCI	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
	CLEAR CELL FOCI	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0
	EOSINOPHILIC FOCI	0	3	4	0	0	3	0	0	0	6	0	0	0	1	1	0
KIDNEY	INFARCT	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	DEPOSIT OF HEMOSIDERIN	0	41	0	0	0	38	1	0	0	39	1	0	0	38	3	0
	CYST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	+ADENOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	EOSINOPHILIC BODY	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	CHRONIC NEPHROPATHY	0	20	15	4	0	16	10	0	0	16	21	2	0	4	14	24
	EDEMA	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0
	ULCER	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0
STOMACH	ATROPHY	0	38	0	0	0	37	0	0	0	37	0	0	0	36	0	0
	HYPERKERATOSIS	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
	HYPERPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	MINERALIZATION	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	EROSION	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0059

SEX : FEMALE

DOSE LEVEL (PPM)		0				64				160				400			
NO. OF EXAMINED ANIMALS																	
ORGAN	FINDINGS	41	1	2	3	39	1	2	3	40	1	2	3	42	1	2	3
		T				T				T				T			
COLON	+EPIDERMAL CYST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
LARGE INTESTINE	ULCER	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
	HELIOMYOSARCOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	EROSION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
URINARY BLADDER	+PAPILLOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UTERUS	CYST	0	2	1	0	0	3	1	0	0	0	0	0	0	1	5	0
	+PAPILLOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	+POLYP	10	0	0	0	7	0	0	0	10	0	0	0	10	0	0	0
SPLEEN	DEPOSIT OF HEMOSIDERIN	0	18	16	0	0	16	10	0	0	16	16	0	0	24	7	0
	GRANULATION	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	FIBROSIS	0	2	0	0	0	1	0	0	0	0	0	0	0	0	1	0
	HEMATOPHRESIS	0	29	5	0	0	21	7	4	0	26	5	3	0	32	4	0
	LEUKEMIA	3	0	0	0	6	0	0	0	3	0	0	0	3	0	0	0
	HANGIOSARCOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	FOLLICULAR HYPERPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
LYMPH NODES	GRANULATION	0	8	1	0	0	4	0	0	0	5	1	0	0	8	1	0
	METASTASIS	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
PANCREATIC ISLET	+ADENOMA	2	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0
	ADENOCARCINOMA	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
PANCREAS	ATROPHY	0	5	0	0	0	4	0	0	0	3	0	0	0	8	0	0
SALIVARY GLAND	INFLAMMATION	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
MAMMARY GLAND	HYPERPLASIA	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0
	+ADENOMA	7	0	0	0	4	0	0	0	7	0	0	0	10	0	0	0
	ADENOCARCINOMA	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	+FIBROADENOMA	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
SKIN	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	+PAPILLOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	+KERATOACANTHOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
SUBCUTANEOUS TISSUE	+FIBROMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
HEART	THROMBUS	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
	FIBROSIS	0	23	1	0	0	23	0	0	0	30	1	0	0	32	1	0
ARTERY	ARTERITIS	0	4	0	0	0	6	0	0	0	3	1	1	0	12	6	0
TONGUE	METASTASIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PITUITARY	PELIOSIS-LIKE LESION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	CYST	0	3	5	0	0	9	4	0	0	7	2	0	0	6	2	0
	HYPERPLASIA	0	4	0	0	0	3	1	0	0	4	1	0	0	5	0	0
	+ADENOMA	23	0	0	0	24	0	0	0	27	0	0	0	28	0	0	0

+ : BENIGN # : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0059

SEX : FEMALE

DOSE LEVEL (PPM)		0				64				160				400			
NO. OF EXAMINED ANIMALS		41				30				40				42			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
PITUITARY	RATHKE'S POUCH	0	3	0	0	0	2	0	0	0	2	0	0	0	0	0	0
ADRENAL	THROMBUS	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0
	FATTY CHANGE	0	6	1	0	0	9	1	0	0	4	0	0	0	4	1	0
	PROLIFERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	HYPERPLASIA	0	5	1	0	0	4	0	0	0	4	0	0	0	8	1	0
	+ADENOMA	4	0	0	0	5	0	0	0	4	0	0	0	2	0	0	0
	METASTASIS	0	2	0	0	0	1	0	0	0	0	0	0	0	1	0	0
	+PHEOCHROMOCYTOMA	5	0	0	0	2	0	0	0	6	0	0	0	5	0	0	0
	+GANGLIONEUROMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	#MALIGNANT PHEOCHROMOCYTOMA	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	ACCUMULATION OF FOAMY CELLS	0	1	0	0	0	0	1	0	0	1	0	0	0	0	2	0
OVARY	CYST	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
EYE	DEPOSIT OF CALCIUM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	INFLAMMATION	0	1	0	1	0	3	0	0	0	0	0	0	0	4	1	0
	ATROPHY RETINA	0	9	26	2	0	7	30	1	0	7	28	1	0	3	36	1
	CATARACT	0	49	2	0	0	46	3	0	0	39	1	0	0	32	10	0
HARDERIAN GLAND																	
	METAPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
NASAL CAVITY																	
	THROMBUS	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
	EOSINOPHILIC CHANGE	0	35	2	0	0	31	2	0	0	32	3	0	0	15	27	0
	DEPOSIT OF CALCIUM	0	15	0	0	0	12	0	0	0	14	0	0	0	10	0	0
	INFLAMMATION	0	7	2	0	0	7	2	0	0	1	0	0	0	7	0	0
	METAPLASIA	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0
TOOTH	+AMELOBLASTOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
BONE MARROW																	
	ATROPHY	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	GRANULATION	0	2	0	0	0	3	0	0	0	2	0	0	0	2	0	0
	METASTASIS	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
BONE	#OSTEOGENIC SARCOMA	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	OSTEOSCLEROSIS	0	0	5	0	0	0	3	0	0	1	3	0	0	0	5	0
PERITONEUM	GRANULATION	0	0	0	0	0	3	0	0	0	3	0	0	0	3	0	0
CLITORAL GLAND																	
	+ADENOMA	3	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
ZYMAL GLAND																	
	#SQUAMOUS CELL CARCINOMA	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

+ : BENIGN    # : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

付録表Ⅲ－１９

腫瘍性病変－死亡・瀕死動物・期間別－  
(ラット・がん原性試験)

付録表Ⅲ - 19

## 腫瘍性病変 - 死亡・瀕死動物・期間別 -

(ラット・癌原性試験)

TABLE NEOPLASTIC FINDINGS (DEAD OR MORIBUND) - TIME RELATED

STUDY NO. : 0059

SEX : MALE

ORGAN	TYPE OF TUMOR	WEEKS DOSE LEVEL NO. OF ANIMALS	0 → 26				27 → 52				53 → 78				79 → 104			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
			0	0	0	0	0	0	0	0	1	1	1	2	8	6	7	11
BRAIN	*GLIOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
THYROID	+ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	*ADENOCARCINOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	+C-CELL ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	*C-CELL CARCINOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TESTIS	+INTERSTITIAL CELL TUMOR		0	0	0	0	0	0	0	0	1	0	0	1	6	6	6	9
SPLEEN	*LEUKEMIA		0	0	0	0	0	0	0	0	0	1	0	0	4	3	2	1
LYMPH NODES																		
	*SARCOMA		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
PANCREATIC ISLET																		
	+ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
SKIN	+KERATOACANTHOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
SUBCUTANEOUS TISSUE																		
	*SARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	+FIBROMA		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	+HEMANGIOMA		0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0
	*MALIGNANT SCHWANNOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
PITUITARY	+ADENOMA		0	0	0	0	0	0	0	0	0	1	0	0	4	2	3	6
ADRENAL	+PHEOCHROMOCYTOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2
BONE	*OSTEOGENIC SARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
PERITONEUM	*MALIGNANT SCHWANNOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

A: 0 (PPM)

B: 64 (PPM)

C: 160 (PPM)

D: 400 (PPM)

+ : BENIGN

\* : MALIGNANT

TABLE      NEOPLASTIC FINDINGS (DEAD OR MORIBUND) - TIME RELATED

STUDY NO. : 0059

SEX : FEMALE

ORGAN-----	TYPE OF TUMOR----	WEEKS DOSE LEVEL NO. OF ANIMALS	0 → 26				27 → 52				53 → 78				79 → 104			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
			0	0	0	0	0	0	0	0	0	1	2	1	1	8	9	9
THYROID	+C-CELL ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
LIVER	#SARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
KIDNEY	#NEPHROBLASTOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
UTERUS	+POLYP		0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
	#ADENOCARCINOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	#SARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
SPLEEN	#LEUKEMIA		0	0	0	0	0	0	0	0	0	1	0	0	2	1	6	2
	#ANGIOSARCOMA		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
MAMMARY GLAND																		
	+ADENOMA		0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1
	+FIBROADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SUBCUTANEOUS TISSUE																		
	#SARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	+FIBROMA		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
MUSCLE	#OSTEOGENIC SARCOMA		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
PITUITARY	+ADENOMA		0	0	0	0	0	0	0	0	0	0	1	0	4	7	6	4
ADRENAL	+ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	#PHEOCHROMOCYTOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
	#MALIGNANT PHEOCHROMOCYTOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
OVARY	#MALIGNANT GRANULOSA-THCA CELL TUMOR		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
ZYMBAL GLAND																		
	#SQUAMOUS CELL CARCINOMA		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
A: 0 (PPM)			B: 64 (PPM)				C: 160 (PPM)				D: 400 (PPM)							
+ : BENIGN			# : MALIGNANT															



付録表Ⅲ－２０

腫瘍性病変－定期解剖動物・期間別－  
(ラット・がん原性試験)

付録表Ⅲ - 20

## 腫瘍性病変 - 定期解剖動物・期間別 -

(ラット・癌原性試験)

TABLE NEOPLASTIC FINDINGS (SACRIFICED) - TIME RELATED

STUDY NO. : 0059

SEX : MALE

ORGAN	TYPE OF TUMOR	WEEKS DOSE LEVEL NO. OF ANIMALS	104			
			A	H	C	D
			41	43	42	37
BRAIN	*GLIOMA		0	1	0	0
SPINAL CORD	*GLIOMA		0	1	0	0
LUNG	+ALVEOLAR/BRONCHIOLAR ADENOMA		1	2	2	0
	*ALVEOLAR/BRONCHIOLAR CARCINOMA		0	0	2	0
THYROID	+ADENOMA		2	2	0	0
	*ADENOCARCINOMA		2	0	1	0
	+C-CELL ADENOMA		4	6	4	6
	*C-CELL CARCINOMA		0	1	0	1
LIVER	+ADENOMA		3	3	0	2
	*HEPATOCELLULAR CARCINOMA		0	0	1	1
COLON	*MALIGNANT SCHWANNOMA		0	0	1	0
URINARY BLADDER	+PAPILLOMA		0	1	0	0
TESTIS	+INTERSTITIAL CELL TUMOR		40	41	41	37
SPLEEN	*LEUKEMIA		1	4	3	0
	+HEMANGIOMA		0	0	0	1
	*ANGIOSARCOMA		0	0	1	0
PANCREATIC ISLET	+ADENOMA		4	4	8	5
	*ADENOCARCINOMA		0	0	1	0
EXOCRINE PANCREAS	+ADENOMA		1	1	0	0
MAMMARY GLAND	+ADENOMA		2	1	0	0
	+FIBROADENOMA		0	1	0	1
SKIN	+PAPILLOMA		1	0	0	0
	+ADENOMA		2	0	0	0
	+TRICHOEPITHELIOMA		1	0	0	0
	*KERATOACANTHOMA		1	4	5	3
SUBCUTANEOUS TISSUE	+FIBROMA		4	2	2	2
	+LIPOMA		0	0	2	1
	+HEMANGIOMA		0	1	0	0
PITUITARY	+ADENOMA		23	27	20	20
ADRENAL	+ADENOMA		0	0	0	2
	*PHEOCHROMOCYTOMA		7	9	8	7
	*MALIGNANT PHEOCHROMOCYTOMA		3	2	0	0
PERITONEUM	*MESOTHELIOMA		2	0	0	2
PREPUTIAL GLAND	+ADENOMA		1	4	4	0
ZYMBAI GLAND	+PAPILLOMA		0	0	0	1

A: 0 (PPM)

H: 64 (PPM)

C: 160 (PPM)

D: 400 (PPM)

+ : BENIGN    \* : MALIGNANT

TABLE NEOPLASTIC FINDINGS (SACRIFICED) - TIME RELATED

STUDY NO. : 0059

SEX : FEMALE

ORGAN	TYPE OF TUMOR	WEEKS DOSE LEVEL NO. OF ANIMALS	104			
			A	H	C	D
			41	39	40	42
LUNG	+ALVEOLAR/BRONCHIOLAR ADENOMA		0	0	1	0
	+ALVEOLAR/BRONCHIOLAR CARCINOMA		0	1	0	0
THYROID	+ADENOMA		0	0	0	1
	+C-CELL ADENOMA		4	3	2	2
	+C-CELL CARCINOMA		2	0	0	0
LIVER	+ADENOMA		1	0	1	1
KIDNEY	+ADENOMA		0	0	1	0
COLON	+EPIDERMAL CYST		1	0	0	0
LARGE INTESTINE						
	+LEIOMYOSARCOMA		0	0	1	0
URINARY BLADDER						
	+PAPILLOMA		1	0	0	0
UTERUS	+PAPILLOMA		0	1	0	0
	+POLYP		10	7	10	10
SPLEEN	+LEUKEMIA		3	6	3	3
	+ANGIOSARCOMA		0	1	0	0
PANCREATIC ISLET						
	+ADENOMA		2	3	0	1
	+ADENOCARCINOMA		0	2	0	0
MAMMARY GLAND						
	+ADENOMA		7	4	7	10
	+ADENOCARCINOMA		1	0	0	1
	+FIBROADENOMA		3	0	0	1
SKIN	+PAPILLOMA		0	0	0	1
	+KERATOACANTHOMA		0	0	1	0
SUBCUTANEOUS TISSUE						
	+FIBROMA		0	0	1	0
PITUITARY	+ADENOMA		23	24	27	28
ADRENAL	+ADENOMA		4	5	4	2
	+PHEOCHROMOCYTOMA		5	2	6	5
	+GANGLIOMYOMA		0	1	0	0
	+MALIGNANT PHEOCHROMOCYTOMA		1	0	0	1
TOOTH	+AMELOBLASTOMA		0	0	1	0
BONE	+OSTEOGENIC SARCOMA		1	0	0	0
CLITORAL GLAND						
	+ADENOMA		3	2	0	2
ZYMBALE GLAND						
	+SQUAMOUS CELL CARCINOMA		2	0	0	0
A: 0 (PPM)			H: 64 (PPM)			
+ : BENIGN			C: 160 (PPM)			
# : MALIGNANT			D: 400 (PPM)			

付録表Ⅲ－２１

腫瘍性病変・発生時期  
(ラット・がん原性試験)

付録表Ⅲ-21

腫瘍性病変・発生時期  
(ラット・癌原性試験)

TABLE TIME OF TUMOR OCCURRENCE

STUDY NO. : 0059

SEX : MALE

ORGAN	TYPE OF TUMORS	DOSE LEVEL (PPM)			
		0 NO. (%) WEEK (MIN.-MAX.)	64 NO. (%) WEEK (MIN.-MAX.)	160 NO. (%) WEEK (MIN.-MAX.)	400 NO. (%) WEEK (MIN.-MAX.)
BRAIN	*GLIOMA	0	1 (2) 104 (104-104)	1 (2) 100 (100-100)	0
SPINAL CORD	*GLIOMA	0	1 (2) 104 (104-104)	0	0
LUNG	+ALVEOLAR/BRONCHIOLAR ADENOMA	1 (2) 104 (104-104)	2 (4) 104 (104-104)	2 (4) 104 (104-104)	0
	*ALVEOLAR/BRONCHIOLAR CARCINOMA	0	0	2 (4) 104 (104-104)	0
THYROID	+ADENOMA	2 (4) 104 (104-104)	3 (6) 99 (91-104)	0	0
	*ADENOCARCINOMA	2 (4) 104 (104-104)	0	2 (4) 103 (103-104)	0
	+C-CELL ADENOMA	4 (8) 104 (104-104)	6 (12) 104 (104-104)	5 (10) 103 (99-104)	7 (14) 103 (103-104)
	*C-CELL CARCINOMA	0	1 (2) 104 (104-104)	1 (2) 103 (103-103)	2 (4) 101 (98-104)
LIVER	+ADENOMA	3 (6) 104 (104-104)	3 (6) 104 (104-104)	0	2 (4) 104 (104-104)
	*HEPATOCELLULAR CARCINOMA	0	0	1 (2) 104 (104-104)	1 (2) 104 (104-104)
COLON	*MALIGNANT SCHWANNOMA	0	0	1 (2) 104 (104-104)	0
URINARY BLADDER	+PAPILLOMA	0	1 (2) 104 (104-104)	0	0
TESTIS	+INTERSTITIAL CELL TUMOR	47 (94) 101 (67-104)	47 (94) 102 (82-104)	47 (94) 103 (97-104)	47 (94) 101 (78-104)
SPLEEN	*LEUKEMIA	5 (10) 95 (79-104)	8 (16) 96 (77-104)	5 (10) 102 (97-104)	1 (2) 103 (103-103)
	+HEMANGIOMA	0	0	0	1 (2) 104 (104-104)
	*ANGIOSARCOMA	0	0	1 (2) 104 (104-104)	0
LYMPH NODES	*SARCOMA	0	0	0	1 (2) 78 (78-78)
PANCREATIC ISLET	+ADENOMA	4 (8) 104 (104-104)	4 (8) 104 (104-104)	9 (18) 103 (97-104)	6 (12) 103 (98-104)
	*ADENOCARCINOMA	0	0	1 (2) 104 (104-104)	0

+ : BENIGN \* : MALIGNANT

TABLE TIME OF TUMOR OCCURRENCE

STUDY NO. : 0059

SEX :MALE

ORGAN	TYPE OF TUMORS	DOSE LEVEL (PPM)			
		0 NO. (%) WEEK (MIN.-MAX.)	64 NO. (%) WEEK (MIN.-MAX.)	160 NO. (%) WEEK (MIN.-MAX.)	400 NO. (%) WEEK (MIN.-MAX.)
EXOCRINE PANCREAS	+ADENOMA	1 ( 2) 104 (104-104)	1 ( 2) 104 (104-104)	0	0
MAMMARY GLAND	+ADENOMA	2 ( 4) 104 (104-104)	1 ( 2) 104 (104-104)	0	0
	+FIBROADENOMA	0	1 ( 2) 104 (104-104)	0	1 ( 2) 104 (104-104)
SKIN	+PAPILLOMA	1 ( 2) 104 (104-104)	0	0	0
	+ADENOMA	2 ( 4) 104 (104-104)	0	0	0
	+TRICHOEPITHELIOMA	1 ( 2) 104 (104-104)	0	0	0
	+KERATOACANTHOMA	1 ( 2) 104 (104-104)	6 (12) 100 ( 91-104)	5 (10) 104 (104-104)	3 ( 6) 104 (104-104)
SUBCUTANEOUS TISSUE	#SARCOMA	0	0	1 ( 2) 103 (103-103)	0
	+FIBROMA	4 ( 8) 104 (104-104)	3 ( 6) 102 ( 99-104)	2 ( 4) 104 (104-104)	2 ( 4) 104 (104-104)
	+LIPOMA	0	0	2 ( 4) 104 (104-104)	1 ( 2) 104 (104-104)
	+HEMANGIOMA	1 ( 2) 67 ( 67- 67)	1 ( 2) 104 (104-104)	2 ( 4) 79 ( 56-102)	0
	#MALIGNANT SCHWANNOMA	0	0	0	1 ( 2) 103 (103-103)
PITUITARY	+ADENOMA	27 (54) 101 ( 79-104)	30 (60) 101 ( 77-104)	23 (46) 103 ( 99-104)	26 (52) 101 ( 81-104)
ADRENAL	+ADENOMA	0	0	0	2 ( 4) 104 (104-104)
	+PHEOCHROMOCYTOMA	8 (16) 103 ( 96-104)	11 (22) 102 ( 97-104)	9 (18) 103 (103-104)	9 (18) 102 ( 96-104)
	#MALIGNANT PHEOCHROMOCYTOMA	3 ( 6) 104 (104-104)	2 ( 4) 104 (104-104)	0	0
BONE	#OSTEOGENIC SARCOMA	1 ( 2) 87 ( 87- 87)	0	0	0
PERITONEUM	#MESOTHELIOMA	2 ( 4) 104 (104-104)	0	0	2 ( 4) 104 (104-104)
	#MALIGNANT SCHWANNOMA	0	0	0	1 ( 2) 88 ( 88- 88)

+ : BENIGN # : MALIGNANT

TABLE TIME OF TUMOR OCCURRENCE

STUDY NO. : 0059

SEX : MALE

ORGAN-----	TYPE OF TUMORS-----	DOSE LEVEL (PPM)			
		0 NO. (%) WEEK (MIN.-MAX.)	64 NO. (%) WEEK (MIN.-MAX.)	160 NO. (%) WEEK (MIN.-MAX.)	400 NO. (%) WEEK (MIN.-MAX.)
PREPUTIAL GLAND	+ADENOMA	1 ( 2) 104 (104-104)	4 ( 8) 104 (104-104)	4 ( 8) 104 (104-104)	0
ZYMBAL GLAND	+PAPILLOMA	0	0	0	1 ( 2) 104 (104-104)
+ : BENIGN    * : MALIGNANT					

TABLE TIME OF TUMOR OCCURRENCE

STUDY NO. : 0059

SEX : FEMAL

ORGAN	TYPE OF TUMORS	DOSE LEVEL (PPM)			
		0 NO. (%) WEEK (MIN.-MAX.)	64 NO. (%) WEEK (MIN.-MAX.)	160 NO. (%) WEEK (MIN.-MAX.)	400 NO. (%) WEEK (MIN.-MAX.)
LUNG	+ALVEOLAR/BRONCHIOLAR ADENOMA	0	0	1 ( 2) 104 (104-104)	0
	*ALVEOLAR/BRONCHIOLAR CARCINOMA	0	1 ( 2) 104 (104-104)	0	0
THYROID	+ADENOMA	0	0	0	1 ( 2) 104 (104-104)
	+C-CELL ADENOMA	6 (12) 103 (100-104)	3 ( 6) 104 (104-104)	2 ( 4) 104 (104-104)	2 ( 4) 104 (104-104)
	*C-CELL CARCINOMA	2 ( 4) 104 (104-104)	0	0	0
LIVER	+ADENOMA	1 ( 2) 104 (104-104)	0	1 ( 2) 104 (104-104)	1 ( 2) 104 (104-104)
	*SARCOMA	1 ( 2) 86 ( 86- 86)	0	0	0
KIDNEY	+ADENOMA	0	0	1 ( 2) 104 (104-104)	0
	*NEPHROBLASTOMA	1 ( 2) 100 (100-100)	0	0	0
COLON	+EPIDERMAL CYST	1 ( 2) 104 (104-104)	0	0	0
LARGE INTESTINE	*LEIOMYOSARCOMA	0	0	1 ( 2) 104 (104-104)	0
URINARY BLADDER	+PAPILLOMA	1 ( 2) 104 (104-104)	0	0	0
UTERUS	+PAPILLOMA	0	1 ( 2) 104 (104-104)	0	0
	+POLYP	10 (20) 104 (104-104)	8 (16) 102 ( 88-104)	11 (22) 103 (101-104)	12 (24) 100 ( 77-104)
	*ADENOCARCINOMA	0	0	1 ( 2) 100 (100-100)	0
	*SARCOMA	1 ( 2) 99 ( 99- 99)	0	0	1 ( 2) 86 ( 86- 86)
SPLEEN	*LEUKEMIA	5 (10) 102 ( 96-104)	8 (16) 98 ( 73-104)	9 (18) 101 ( 93-104)	5 (10) 101 ( 90-104)
	*ANGIOSARCOMA	0	1 ( 2) 104 (104-104)	1 ( 2) 77 ( 77- 77)	0
PANCREATIC ISLET	+ADENOMA	2 ( 4) 104 (104-104)	3 ( 6) 104 (104-104)	0	1 ( 2) 104 (104-104)
	*ADENOCARCINOMA	0	2 ( 4) 104 (104-104)	0	0

+ : BENIGN \* : MALIGNANT



TABLE TIME OF TUMOR OCCURRENCE

STUDY NO. : 0059

SEX : FEMAL

ORGAN	TYPE OF TUMORS	DOSE LEVEL (PPM)			
		0 NO. (%) WEEK (MIN.-MAX.)	64 NO. (%) WEEK (MIN.-MAX.)	160 NO. (%) WEEK (MIN.-MAX.)	400 NO. (%) WEEK (MIN.-MAX.)
MAMMARY GLAND	+ADENOMA	7 (14) 104 (104-104)	5 (10) 103 (101-104)	8 (16) 100 (77-104)	11 (22) 104 (104-104)
	*ADENOCARCINOMA	1 (2) 104 (104-104)	0	0	1 (2) 104 (104-104)
	+FIBROADENOMA	3 (6) 104 (104-104)	0	0	2 (4) 104 (104-104)
SKIN	+PAPILLOMA	0	0	0	1 (2) 104 (104-104)
	+KERATOACANTHOMA	0	0	1 (2) 104 (104-104)	0
SUBCUTANEOUS TISSUE	*SARCOMA	1 (2) 92 (92-92)	0	0	0
	+FIBROMA	0	1 (2) 101 (101-101)	1 (2) 104 (104-104)	0
MUSCLE	*OSTEOGENIC SARCOMA	0	0	0	1 (2) 77 (77-77)
PITUITARY	+ADENOMA	27 (54) 101 (83-104)	31 (62) 101 (85-104)	34 (68) 102 (77-104)	32 (64) 103 (103-104)
ADRENAL	+ADENOMA	4 (8) 104 (104-104)	5 (10) 104 (104-104)	5 (10) 103 (101-104)	2 (4) 104 (104-104)
	+PHEOCHROMOCYTOMA	5 (10) 104 (104-104)	3 (6) 103 (101-104)	7 (14) 102 (93-104)	7 (14) 104 (104-104)
	+GANGLIONEUROMA	0	1 (2) 104 (104-104)	0	0
	*MALIGNANT PHEOCHROMOCYTOMA	2 (4) 103 (102-104)	1 (2) 84 (84-84)	0	1 (2) 104 (104-104)
OVARY	*MALIGN. GRANULOSA-THECA CELL TUMOR	0	1 (2) 93 (93-93)	0	0
TOOTH	+AMELOBLASTOMA	0	0	1 (2) 104 (104-104)	0
BONE	*OSTEOGENIC SARCOMA	1 (2) 104 (104-104)	0	0	0
CLITORAL GLAND	+ADENOMA	3 (6) 104 (104-104)	2 (4) 104 (104-104)	0	2 (4) 104 (104-104)
ZYMBALE GLAND	*SQUAMOUS CELL CARCINOMA	3 (6) 92 (68-104)	0	0	0

+ : BENIGN \* : MALIGNANT

付録表Ⅲ－２２

肉眼所見・総括表

(マウス・急性試験・死亡・瀕死動物)

## 付録表Ⅲ-22

## 肉眼所見・総括表

(マウス・急性試験・死亡・瀕死動物)

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0008

SEX : MALE

DOSE LEVEL (PPM)		0		68		102		153		230	
NO. OF EXAMINED ANIMALS		0	0	0	0	2	0	7	0	10	0
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
SKIN	MISSING	0	0	0	0	0	0	0	0	1	0
NASAL CAVITY	FLUID	0	0	0	0	0	0	0	0	0	0
THYMUS	ATROPHIC	0	0	0	0	1	0	2	0	1	0
LUNG	CONGESTION	0	0	0	0	0	0	0	0	3	0
	ATELECTASIS	0	0	0	0	1	0	7	0	4	0
	REDDISH	0	0	0	0	1	0	7	0	4	0
VENTRICLE	DILATED	0	0	0	0	0	0	1	0	3	0
ATRIUM	CONGESTION	0	0	0	0	0	0	0	0	1	0
	DILATED	0	0	0	0	1	0	2	0	5	0
	WHITE PATCH/ZONE	0	0	0	0	0	0	1	0	0	0
LIVER	HEMORRHAGE	0	0	0	0	0	0	1	0	0	0
	CONGESTION	0	0	0	0	0	0	0	0	1	0
	TURBID	0	0	0	0	1	0	4	0	9	0
SPLEEN	ANEMIC	0	0	0	0	0	0	0	0	1	0
	BLACK PATCH/ZONE	0	0	0	0	1	0	0	0	0	0
	COLORED PATCH/ZONE	0	0	0	0	0	0	0	0	1	0
	SMALL	0	0	0	0	0	0	1	0	1	0
STOMACH	WHITE PATCH/ZONE	0	0	0	0	0	0	0	0	1	0
FORESTOMACH	ULCER	0	0	0	0	0	0	1	0	0	0
GLANDULAR STOMACH	HEMORRHAGE	0	0	0	0	0	0	3	0	1	0
ADRENAL	REDDISH	0	0	0	0	1	0	3	0	4	0
KIDNEY	PALE	0	0	0	0	0	0	1	0	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0008

SEX : MALE

DOSE LEVEL (PPM)		345	
NO. OF EXAMINED ANIMALS		10	0
ORGAN	FINDINGS	D	M
SKIN	MISSING	0	0
NASAL CAVITY	FLUID	1	0
THYMUS	ATROPHIC	0	0
LUNG	CONGESTION	8	0
	ATELECTASIS	1	0
	REDDISH	2	0
VENTRICLE	DILATED	2	0
ATRIUM	CONGESTION	0	0
	DILATED	2	0
	WHITE PATCH/ZONE	0	0
LIVER	HEMORRHAGE	0	0
	CONGESTION	0	0
	TURPID	6	0
SPLEEN	ANEMIC	0	0
	BLACK PATCH/ZONE	0	0
	COLORED PATCH/ZONE	0	0
	SMALL	0	0
STOMACH	WHITE PATCH/ZONE	0	0
FORESTOMACH	ULCER	0	0
GLANDULAR STOMACH	HEMORRHAGE	1	0
ADRENAL	REDDISH	2	0
KIDNEY	PALE	0	0

D: DEAD M: MORIBUND



TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0008

SEX : FEMALE

DOSE LEVEL (PPF)		345	
NO. OF EXAMINED ANIMALS		10	0
ORGAN	FINDINGS	D	M
THYMUS	ATROPHIC	0	0
LUNG	CONGESTION	5	0
	ATELECTASIS	4	0
	REDDISH	6	0
VENTRICLE	DILATED	0	0
ATRIUM	DILATED	0	0
LIVER	TURBID	10	0
GALL BLADDER	FLUID	0	0
SPLEEN	RED PATCH/ZONE	1	0
	BLACK PATCH/ZONE	1	0
GLANDULAR STOMACH	HEMORRHAGE	0	0
ADRENAL	REDDISH	0	0
UTERUS	DILATED LUEN	1	0
D: DEAD M: MORIBUND			

付録表Ⅲ－２３

肉眼所見・総括表  
(マウス・急性試験・定期解剖動物)

## 付録表Ⅲ－２３

## 肉眼所見・総括表

(マウス・急性試験・定期解剖動物)

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0008

SEX : MALE

DOSE LEVEL (PPM)		0	68	102	153	230
NO. OF EXAMINED ANIMALS		10	10	8	3	0
ORGAN	FINDINGS					
SPLEEN KIDNEY	BLACK PATCH/ZONE	0	1	0	0	0
	ENLARGED	0	1	0	0	0
	SWOLLEN	0	1	0	0	0
	SOFT	0	1	0	0	0
	WHITE PATCH/ZONE	0	1	0	0	0
URINARY BLADDER	HYDRONEPHROSIS	0	0	1	0	0
	HEMORRHAGE	0	1	0	0	0



TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0008

SEX : MALE

DOSE LEVEL (PPP)	345
NO. OF EXAMINED ANIMALS	0

ORGAN	FINDINGS
-------	----------

SPLEEN	BLACK PATCH/ZONE	0
KIDNEY	ENLARGED	0
	SWOLLEN	0
	SOFT	0
	WHITE PATCH/ZONE	0
	HYDRONEPHROSIS	0
URINARY BLADDER	HEMORRHAGE	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0008

SEX : FEMALE

DOSE LEVEL (PPM)		0	68	102	153	230
NO. OF EXAMINED ANIMALS		10	10	9	4	1
ORGAN	FINDINGS					
SPLEEN	WHITE PATCH/ZONE	0	1	0	0	0
	BLACK PATCH/ZONE	1	0	0	1	1
UTERUS	ENLARGED	3	2	0	0	0
	DILATED LUMEN	4	5	3	0	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0008

SEX : FEMALE

DOSE LEVEL (PPM)		345
NO. OF EXAMINED ANIMALS		0
ORGAN	FINDINGS	
SPLEEN		
	WHITE PATCH/ZONE	0
	BLACK PATCH/ZONE	0
UTERUS		
	ENLARGED	0
	DILATED LUMEN	0

付録表Ⅲ－２４

病理組織学的所見・総括表

（マウス・急性試験・死亡・瀕死動物）

付録表Ⅲ-24

## 病理組織学的所見・総括表

(マウス・急性試験・死亡・瀕死動物)

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0008

SEX : MALE

DOSE LEVEL (PPM)		0				6A				102				153				230			
NO. OF EXAMINED ANIMALS		0				6A				102				153				230			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
LARYNX	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0	0	1
LIVER	CONGESTION	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0
	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KIDNEY	REGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	TUBULAR NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0
	PROTEIN CAST	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0
STOMACH	ULCEP	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0
TESTIS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0
SPLEEN	ATROPHY	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	1	0	0
	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0
	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0
LYMPH NODES	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
HEART	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
TONGUE	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
NASAL CAVITY	DEGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0

+ : BENIGN    - : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0008

SEX : MALE

DOSE LEVEL (PPB)		345			
NO. OF EXAMINED ANIMALS		3			
ORGAN	FINDINGS	T	1	2	3
LARYNX	NECROSIS	0	0	0	0
LUNG	CONGESTION	0	0	0	3
LIVER	CONGESTION	0	2	0	0
KIDNEY	GRANULATION	0	2	0	0
	REGENERATION	0	0	0	0
	TUBULAR NECROSIS	0	0	0	0
STOMACH	PROTEIN CAST	0	0	0	0
	ULCEP	0	1	0	0
TESTIS	ATROPHY	0	0	0	0
SPLEEN	ATROPHY	0	0	1	0
	KARYORRHEXIS	0	3	0	0
THYMUS	ATROPHY	0	0	0	0
	KARYORRHEXIS	0	2	1	0
LYMPH NODES	ATROPHY	0	0	0	0
	KARYORRHEXIS	0	2	1	0
HEART	NECROSIS	0	0	0	0
TONGUE	NECROSIS	0	0	0	0
NASAL CAVITY					
	DEGENERATION	0	0	1	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0008

SEX : FEMALE

DOSE LEVEL (PPM)		0				68				102				153				230			
NO. OF EXAMINED ANIMALS		0				0				1				2				2			
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	1	0	0	0	2	0	0	1	1
LIVER	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLEEN	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0
	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0
LYMPH NODES	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	KARYORRHEXIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
NASAL CAVITY	DEGENERATION	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	2	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0008

SEX : FEMALE

DOSE LEVEL (PPM)		345			
NO. OF EXAMINED ANIMALS		2			
ORGAN	FINDINGS	T	1	2	3
LUNG	CONGESTION	0	0	2	0
LIVER	GRANULATION	0	1	0	0
SPLEEN	ATROPHY	0	0	0	0
	KARYORRHEXIS	0	0	0	0
THYMUS	ATROPHY	0	0	0	0
	KARYORRHEXIS	0	0	0	0
LYMPH NODES	ATROPHY	0	0	0	0
	KARYORRHEXIS	0	1	0	0
NASAL CAVITY	DEGENERATION	0	1	0	0
+ : BENIGN    - : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED					



付録表Ⅲ－２５

病理組織学的所見・総括表

（マウス・急性試験・定期解剖動物）

付録表Ⅲ－25

## 病理組織学的所見・総括表

(マウス・急性試験・定期解剖動物)

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0008

SEX : MALE

DOSE LEVEL (PPM)		0				60				102				153				230				
NO. OF EXAMINED ANIMALS		2				2				2				2				0				
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	
LIVER	GRANULATION	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
KIDNEY	REGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	HYDRONEPHROSIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EPIDIDYMIS	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
HEART	NECROSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
+ : BENIGN		* : MALIGNANT		T : TUMOR		1 : SLIGHT		2 : MODERATE		3 : MARKED												

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0008

SEX : MALE

DOSE LEVEL (PPM)		345			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
LIVER	GRANULATION	0	0	0	0
KIDNEY	REGENERATION	0	0	0	0
	HYDRONEPHROSIS	0	0	0	0
EPIDIDYMIS	GRANULATION	0	0	0	0
HEART	NECROSIS	0	0	0	0
+ : BENIGN    # : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED					

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0006

SEX : FEMALE

DOSE LEVEL (PPM)		0				68				102				153				230			
NO. OF EXAMINED ANIMALS		2				2				2				2				1			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
LUNG	BRONCHOPNEUMONIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
LIVER	GRANULATIONS	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLEEN	HEMATOPOTESIS	0	1	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0

+ : BENIGN    - : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0008

SEX : FEMALE

DOSE LEVEL (PPM)	345
NO. OF EXAMINED ANIMALS	0
ORGAN FINDINGS	T 1 2 3

LUNG	BRONCHOPNEUMONIA	0	0	0	0
LIVER	GRANULATION	0	0	0	0
SPLEEN	HEMATOPOLTESIS	0	0	0	0

+ : BENIGN	* : MALIGNANT	T : TUMOR	1 : SLIGHT	2 : MODERATE	3 : MARKED
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付録表Ⅲ－２６

肉眼所見・総括表

（マウス・２週間試験・死亡・瀕死動物）

## 付録表Ⅲ-26

## 肉眼所見・総括表

(マウス・2週間試験・死亡・瀕死動物)

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0027

SEX : MALE

DOSE LEVEL (PPM)		0		111		333		1000		3000	
NO. OF EXAMINED ANIMALS		0	0	0	0	0	0	0	0	4	0
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
BRAIN	CONGESTION	0	0	0	0	0	0	0	0	0	0
	SWOLLEN	0	0	0	0	0	0	0	0	1	0
WHOLE BODY	WASTING	0	0	0	0	0	0	0	0	4	0
THYMUS	ATROPHIC	0	0	0	0	0	0	0	0	3	0
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0
	ATELECTASIS	0	0	0	0	0	0	0	0	1	0
	REDDISH	0	0	0	0	0	0	0	0	2	0
LIVER	REDDISH	0	0	0	0	0	0	0	0	0	0
	SMALL	0	0	0	0	0	0	0	0	0	0
GALL BLADDER											
	ATROPHIC	0	0	0	0	0	0	0	0	0	0
SPLEEN	ATROPHIC	0	0	0	0	0	0	0	0	0	0
STOMACH	FLUID	0	0	0	0	0	0	0	0	0	0
GLANDULAR STOMACH											
	HEMORRHAGE	0	0	0	0	0	0	0	0	2	0
	FLUID	0	0	0	0	0	0	0	0	4	0
PANCREAS	ATROPHIC	0	0	0	0	0	0	0	0	0	0
KIDNEY	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. : 0027

SEX : MALE

DOSE LEVEL (PPT)		4000	
NO. OF EXAMINED ANIMALS		10	0
ORGAN	FINDINGS	0	4
BRAIN	1 CONGESTION	1	0
	1 SWOLLEN	1	0
WHOLE BODY	100 WASTING	10	0
THYMUS	100 ATROPHIC	10	0
LUNG	1 CONGESTION	1	0
	1 ATELECTASIS	0	0
	1 REDDISH	1	0
LIVER	1 REDDISH	1	0
	1 SMALL	1	0
GALL BLADDER	1 ATROPHIC	1	0
SPLEEN	1 ATROPHIC	2	0
STOMACH	1 FLUID	1	0
GLANDULAR STOMACH	10 HEMORRHAGE	7	0
	10 FLUID	9	0
PANCREAS	1 ATROPHIC	2	0
KIDNEY	1 REDDISH	2	0

0: DEAD 4: MORIBUND



TABLE SUMMARY OF GROSS FINDINGS (DEAD OR FORBUND)

STUDY NO. : 0027

SEX : FEMALE

DOSE LEVEL (PPM)		0		111		333		1000		3000	
NO. OF EXAMINED ANIMALS		0	0	0	0	0	0	0	0	9	1
ORGAN	FINDINGS	D	M	D	M	D	M	D	M	D	M
WHOLE BODY	WASTING	0	0	0	0	0	0	0	0	8	1
THYMUS	ATROPHIC	0	0	0	0	0	0	0	0	9	1
LUNG	REDDISH	0	0	0	0	0	0	0	0	1	0
SPLEEN	ATROPHIC	0	0	0	0	0	0	0	0	2	0
GLANDULAR STOMACH	HEMORRHAGE	0	0	0	0	0	0	0	0	8	1
	FLUID	0	0	0	0	0	0	0	0	9	1
PANCREAS	ATROPHIC	0	0	0	0	0	0	0	0	3	0
KIDNEY	REDDISH	0	0	0	0	0	0	0	0	0	0

D: DEAD M: FORBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR FORBIDDEN)

STUDY NO. : 0027

SEX : FEMALE

DOSE LEVEL (PPM)		9000	
NO. OF EXAMINED ANIMALS		10	0
ORGAN	FINDINGS	D	M
WHOLE BODY	WASTING	10	0
THYMUS	ATROPHIC	10	0
LUNG	REDDISH	1	0
SPLEEN	ATROPHIC	1	0
GLANDULAR STOMACH			
	HEMORRHAGE	8	0
	FLUID	8	0
PANCREAS	ATROPHIC	0	0
KIDNEY	REDDISH	1	0

D: DEAD M: FORBIDDEN

付録表Ⅲ－２７

肉眼所見・総括表  
(マウス・２週間試験・定期解剖動物)

付録表Ⅲ - 27

## 肉眼所見・総括表

(マウス・2週間試験・定期解剖動物)

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0027

SEX : MALE

DOSE LEVEL (PPM)		0	111	333	1000	3000
NO. OF EXAMINED ANIMALS		10	10	10	10	6
ORGAN	FINDINGS					
WHOLE BODY	FASTING	0	0	0	0	6
THYMUS	ATROPHIC	0	0	0	0	6
LIVER	DARK	0	0	0	0	4
	REDDISH	0	0	0	0	1
	YELLOWISH	0	0	0	0	0
	ENLARGED	0	0	0	0	1
	SMALL	0	0	0	5	5
SPLLEN	ENLARGED	0	0	0	0	0
	SMALL	0	0	0	0	6
STOMACH	FLUID	0	0	0	0	2
GLANDULAR STOMACH						
	HEMORRHAGE	0	0	0	0	1
	FLUID	0	0	0	0	3

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0027

SEX : MALE

DOSE LEVEL (PPM)		9000
NO. OF EXAMINED ANIMALS		0
ORGAN	FINDINGS	
WHOLE BODY	WASTING	0
THYMUS	ATROPHIC	0
LIVER	DARK	0
	REDDISH	0
	YELLOWISH	0
	BROWN	0
	SMALL	0
SPLEEN	ENLARGED	0
	SMALL	0
STOMACH	FLUID	0
GLANDULAR STOMACH		
	HEMORRHAGE	0
	FLUID	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14<sup>TH</sup> DAY)

STUDY NO. : 0027

SEX : FEMALE

DOSE LEVEL (PPM)		6	111	333	1000	3000
NO. OF EXAMINED ANIMALS		10	10	10	10	0
ORGAN	FINDINGS					
LIVER	YELLOWISH	0	0	0	0	0
	SMALL	0	0	0	8	0
SPLEEN	ENLARGED	0	0	10	10	0
	BLACK PATCH/ZONE	1	0	0	0	0
UTERUS	DILATED	1	2	2	0	0
	ATROPHIC	0	0	0	10	0

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0027

SEX : FEMALE

DOSE LEVEL (PPM)	9000
NO. OF EXAMINED ANIMALS	0
ORGAN	FINDINGS

LIVER	YELLOWISH	0
	SMALL	0
SPLEEN	ENLARGED	0
	BLACK PATCH/ZONE	0
UTERUS	DILATED	0
	ATROPHIC	0

付録表Ⅲ－２８

病理組織学的所見・総括表

（マウス・２週間試験・死亡・瀕死動物）



付録表Ⅲ - 28

## 病理組織学的所見・総括表

(マウス・2週間試験・死亡・瀕死動物)

TABLE SUMMARY OF MICRO FINDINGS (HEAD OR HOFIROND)

STUDY NO. : 0027

SEX : MALE

DOSE LEVEL (PPF)		0				111				333				1000				3000			
NO. OF EXAMINED ANIMALS		0				111				333				1000				3000			
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	1	0
LIVER	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
STOMACH	ULCER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TESTIS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLEEN	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	HEMATOPHRESIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
LYMPH NODES	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
BONE MARROW	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	HYPOPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	ATROPHY	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	0	1	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0027

SEX : MALE

DOSE LEVEL (PPM)		9000			
NO. OF EXAMINED ANIMALS		3			
ORGAN	FINDINGS	T	1	2	3
LUNG	CONGESTION	0	1	0	0
LIVER	ATROPHY	0	3	0	0
	NECROSIS	0	2	1	0
STOMACH	ULCER	0	2	0	0
TESTIS	ATROPHY	0	2	0	0
SPLEEN	ATROPHY	0	1	2	0
	HEPATOPATHESIS	0	0	0	0
THYMUS	ATROPHY	0	0	2	0
LYMPH NODES	ATROPHY	0	1	0	0
BONE MARROW					
	CONGESTION	0	3	0	0
	HYPPLASIA	0	3	0	0
	ATROPHY	0	1	0	0
	DEPOSIT OF PIGMENT	0	1	0	0
+ : BENIGN    # : PATHOLOGIC    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED					

TABLE SUMMARY OF MICRO FINDINGS (HEAD OR NOPIROND)

STUDY NO. : 0027

SEX : FEMALE

DOSE LEVEL (PPP)		0				111				333				1000				3000			
NO. OF EXAMINED ANIMALS		0				0				0				0				2			
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	0
LIVER	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
STOMACH	ULCER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
SPLEEN	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
BONE MARROW	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	HYPOPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR HUSBAND)

STUDY NO. : 0027

SEX : FEMALE

DOSE LEVEL (PPF)		9000			
NO. OF EXAMINED ANIMALS		2			
ORGAN	FINDINGS	T	1	2	3
LUNG	CONGESTION	0	1	0	0
LIVER	ATROPHY	0	2	0	0
	DEPOSIT OF PIGMENT	0	0	0	0
STOMACH	ULCER	0	2	0	0
SPLEEN	ATROPHY	0	0	2	0
	DEPOSIT OF PIGMENT	0	0	0	0
THYMUS	ATROPHY	0	0	2	0
BONE MARROW					
	CONGESTION	0	0	1	0
	HYPOPLASIA	0	0	1	0
	DEPOSIT OF PIGMENT	0	1	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

付録表Ⅲ－２９

病理組織学的所見・総括表

（マウス・２週間試験・定期解剖動物）

付録表Ⅲ - 29

## 病理組織学的所見・総括表

(マウス・2週間試験・定期解剖動物)

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0027

SEX : MALE

DOSE LEVEL (PPM)		0				111				333				1000				3000			
NO. OF EXAMINED ANIMALS		2				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
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
LIVER	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
STOMACH	ULCEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
SPLEEN	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	1	0	0
THYMUS	HEMATOPOLTESIS	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	0	0	0	0	0
ADONE MARROW	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0
	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	HYPOLASTIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	2	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0027

SEX : MALE

DOSE LEVEL (PPM)		9000			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
LUNG	CONGESTION	0	0	0	0
LIVER	ATROPHY	0	0	0	0
	NECROSIS	0	0	0	0
	DEPOSIT OF PIGMENT	0	0	0	0
STOMACH	ULCER	0	0	0	0
SPLEEN	ATROPHY	0	0	0	0
	DEPOSIT OF PIGMENT	0	0	0	0
	HEPATOPHETISIS	0	0	0	0
THYMUS	ATROPHY	0	0	0	0
BONE MARROW					
	CONGESTION	0	0	0	0
	HYPOPLASIA	0	0	0	0
	DEPOSIT OF PIGMENT	0	0	0	0
+ : BENIGN    * : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED					

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0027

SEX : FEMALE

DOSE LEVEL (PPM)		0				111				333				1000				3000			
NO. OF EXAMINED ANIMALS		2				2				2				2				0			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
LIVER	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0
	GRANULATION	0	2	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	HEMATOPOTESIS	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
SPLEEN	DEPOSIT OF PIGMENT	0	0	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0	0	0	0
	HEMATOPOTESIS	0	0	0	0	0	2	0	0	0	1	1	0	0	0	2	0	0	0	0	0
BONE MARROW	HYPOPLASIA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0
+ : DESIGN		R : MALIGNANT				T : TUMOR				1 : SLIGHT				2 : MODERATE				3 : MARKED			



TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 14 DAY)

STUDY NO. : 0027

SEX : FEMALE

DOSE LEVEL (PPM)		0000			
NO. OF EXAMINED ANIMALS		0			
ORGAN	FINDINGS	T	1	2	3
LIVER	DEPOSIT OF PIGMENT	0	0	0	0
	GRANULATION	0	0	0	0
	HEMATOPOLIESIS	0	0	0	0
SPLEEN	DEPOSIT OF PIGMENT	0	0	0	0
	HEMATOPOLIESIS	0	0	0	0
BONE MARROW	HYPOPLASIA	0	0	0	0
	DEPOSIT OF PIGMENT	0	0	0	0
+ : BENIGN    - : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED					

付録表Ⅲ－３０

肉眼所見・総括表

(マウス・１３週間試験・死亡・瀕死動物)

## 付録表Ⅲ－３０

## 肉眼所見・総括表

## (マウス・１３週間試験・死亡・瀕死動物)

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0039

SEX : MALE

DOSE LEVEL (PPM)		0		24.7		74.1		222		667	
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
THYMUS	ATROPHIC	0	0	0	0	0	0	0	0	0	0
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0
	EDEMA	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

D: DEAD    B: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0039

SEX : MALE

DOSE LEVEL (PPM)		2000	
NO. OF EXAMINED ANIMALS		3	1
ORGAN	FINDINGS	D	%
THYMUS	ATROPHIC	3	1
LUNG	CONGESTION	1	0
	EDEMA	1	0
GLANDULAR STOMACH	HEMORRHAGE	1	0
	FLUID	1	0
D: DEAD    M: MORIBUND			

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0039

SEX : FEMALE

DOSE LEVEL (PPM)		0		24.7		74.1		222		647	
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
THYMUS	CONGESTION	0	0	0	0	0	0	0	0	0	0
	ATROPHIC	0	0	0	0	0	0	0	0	0	0
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0
	REDDISH	0	0	0	0	0	0	0	0	0	0
LIVER	BLACK	0	0	0	0	0	0	0	0	0	0
SPLEEN	ATROPHIC	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
SMALL INTESTINE											
	FLUID	0	0	0	0	0	0	0	0	0	0
KIDNEY	BLACK PATCH/ZONE	0	0	0	0	0	0	0	0	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR HOPING)

STUDY NO. : 0039

SEX : FEMALE

DOSE LEVEL (PPM)		2000	
NO. OF EXAMINED ANIMALS		2	4
ORGAN	FINDINGS	D	M
THYMUS	CONGESTION	0	1
	ATROPHIC	1	3
LUNG	CONGESTION	0	1
	REDDISH	1	1
LIVER	BLACK	1	0
SPLEEN	ATROPHIC	1	1
GLANDULAR STOMACH	HEMORRHAGE	1	0
	FLUID	1	1
	REDDISH	0	1
SMALL INTESTINE	FLUID	0	1
KIDNEY	BLACK PATCH/ZONE	1	0

D: DEAD M: HOPING

付録表Ⅲ－３１

肉眼所見・総括表

（マウス・１３週間試験・定期解剖動物）

## 付録表Ⅲ-31

## 肉眼所見・総括表

(マウス・13週間試験・定期解剖動物)

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0039

SEX : MALE

DOSE LEVEL (PPM)		0	24.7	74.1	222	567
NO. OF EXAMINED ANIMALS		10	10	10	10	10
ORGAN	FINDINGS					
SUBCUTANEOUS TISSUE						
	BROWN	0	0	0	0	1
PITUITARY	BROWN	0	0	0	0	1
SALIVARY GLAND						
	ENLARGED	0	0	0	1	0
LIVER						
	PASS	0	0	1	0	0
	BROWN	0	0	0	1	6
SPLEEN						
	ENLARGED	0	0	0	0	2
	BROWN	0	0	0	5	7
	BLACK	0	0	0	3	4
	BLACK PATCH/ZONE	1	1	0	0	0
GLANDULAR STOMACH						
	HEMORRHAGE	0	0	1	1	0
PANCREAS	WHITE PATCH/ZONE	0	0	0	0	1
TESTIS						
	GRAYISH	0	0	0	0	0



TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0039

SEX : MALE

DOSE LEVEL (PPM)	2000
NO. OF EXAMINED ANIMALS	6
ORGAN	FINDINGS

## SUBCUTANEOUS TISSUE

BROWN 4

PITUITARY BROWN 0

SALIVARY GLAND

ENLARGED 0

LIVER MASS 0

BROWN 0

SPLEEN ENLARGED 5

BROWN 4

BLACK 0

BLACK PATCH/ZONE 0

## GLANDULAR STOMACH

HEMORRHAGE 0

PANCREAS WHITE PATCH/ZONE 0

TESTIS GRAYISH 1

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0039

SEX : FEMALE

DOSE LEVEL (PPM)		0	24.7	74.1	222	667
NO. OF EXAMINED ANIMALS		10	10	10	10	10
ORGAN	FINDINGS					
DERMATOGENOUS TISSUE						
	BROWN	0	0	0	0	4
SALIVARY GLAND	BROWN	0	0	1	0	1
LIVER	HAZY	0	0	1	0	0
	BROWN	0	0	0	4	0
SPLEEN	ENLARGED	0	0	0	4	10
	BROWN	0	0	1	0	7
	BLACK	0	0	2	2	1
	BLACK PATCH/ZONE	1	0	0	0	0
GLANDULAR STRUCTURE						
	HEMORRHAGE	1	1	1	1	1
PANCREAS	WHITE PATCH/ZONE	0	0	1	2	2
SMALL INTESTINE	FLUID	0	2	0	0	0
URINARY BLADDER	FLUID	0	0	1	0	0
	YELLOWISH	0	0	0	0	0
OVARY	CYST	1	0	0	0	0
UTERUS	EDEMA	5	3	6	5	3

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0039

SEX : FEMALE

DOSE LEVEL (PPM)		2000
NO. OF EXAMINED ANIMALS		2
ORGAN	FINDINGS	
SUBCUTANEOUS TISSUE		
	BROWN	2
SALIVARY GLAND		
	BROWN	0
LIVER	PASS	0
	BROWN	2
SPLEEN	ENLARGED	2
	BROWN	2
	BLACK	0
	BLACK PATCH/ZONE	0
GLANDULAR STOMACH		
	HEMORRHAGE	0
PANCREAS	WHITE PATCH/ZONE	0
SMALL INTESTINE		
	FLUID	0
URINARY BLADDER		
	FLUID	0
	YELLOWISH	1
OVARY	CYST	0
UTERUS	EDENA	1

付録表Ⅲ－３２

臓器重量（実重量）・総括表  
（マウス・１３週間試験）

付録表Ⅲ－３２ 臓器重量（実重量）・総括表  
（マウス・１３週間試験）

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)	THYMUS (MG)	ADRENAL R (MG)	ADRENAL L (MG)	TESTIS R (MG)
MALE	0	10	34.0 ± 2.2	37 ± 8	5 ± 1	5 ± 1	105 ± 25
	24.7	10	34.4 ± 2.6	41 ± 8	5 ± 1	5 ± 1	117 ± 14
	74.1	10	35.0 ± 2.3	41 ± 5	5 ± 1	5 ± 1	116 ± 12
	222	10	33.3 ± 3.4	37 ± 6	5 ± 1	6 ± 2	113 ± 21
	667	10	28.9 ± 1.6 ***	34 ± 6	4 ± 1	5 ± 1	115 ± 25
	2000	6	24.0 ± 1.5 ***	35 ± 6	5 ± 0	5 ± 1	112 ± 8

SIGNIFICANT DIFFERENCE: #: P&lt;0.05 \*\* P&lt;0.01 \*\*\* P&lt;0.001

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TESTIS L (MG)		HEART (MG)		LUNG R (MG)		LUNG L (MG)		KIDNEY R (MG)	
MALE	0	10	106 ±	23	151 ±	9	100 ±	7	52 ±	3	225 ±	10
	24.7	10	117 ±	14	153 ±	10	102 ±	7	53 ±	4	228 ±	16
	74.1	10	115 ±	12	157 ±	10	105 ±	8	53 ±	2	225 ±	13
	222	10	109 ±	20	160 ±	10	101 ±	8	54 ±	3	225 ±	12
	667	10	113 ±	23	147 ±	9	111 ±	16	55 ±	4	232 ±	18
	2000	6	110 ±	6	142 ±	12	101 ±	6	55 ±	4	228 ±	19

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (MG)	SPLLEN (MG)	LIVER (MG)	BRAIN (MG)
MALE	0	10	224 ± 12	51 ± 5	1191 ± 79	442 ± 9
	24.7	10	227 ± 16	52 ± 4	1223 ± 95	444 ± 13
	74.1	10	219 ± 10	54 ± 3	1259 ± 61*	452 ± 10*
	222	10	217 ± 20	66 ± 7***	1306 ± 152	442 ± 13
	667	10	217 ± 11	91 ± 17***	1238 ± 66	434 ± 9*
	2000	6	219 ± 22	136 ± 32**	1200 ± 122	422 ± 16**

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)		THYMUS (MG)		ADRENAL R (MG)		ADRENAL L (MG)		OVARY R (MG)	
FEMALE	0	10	20.5 ±	1.9	35 ±	9	6 ±	1	7 ±	1	13 ±	5
	24.7	10	21.2 ±	2.1	39 ±	9	6 ±	1	7 ±	1	14 ±	3
	74.1	10	20.6 ±	1.2	35 ±	5	6 ±	2	6 ±	1	15 ±	5
	222	10	19.7 ±	0.8	34 ±	9	6 ±	2	7 ±	1	12 ±	3
	667	10	19.2 ±	0.5	33 ±	4	5 ±	1	6 ±	1	11 ±	3
	2000	2	18.5 ±	1.8	43 ±	8	7 ±	1	7 ±	1	12 ±	4

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



TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	OVARY L (MG)		HEART (MG)		LUNG R (MG)		LUNG L (MG)		KIDNEY R (MG)	
FEMALE	0	10	14 ±	8	119 ±	9	98 ±	6	51 ±	4	153 ±	12
	24.7	10	15 ±	4	125 ±	10	102 ±	13	53 ±	4	152 ±	11
	74.1	10	14 ±	3	128 ±	6*	98 ±	9	50 ±	3	152 ±	8
	222	10	13 ±	3	132 ±	8**	102 ±	6	53 ±	2	153 ±	11
	667	10	10 ±	3	125 ±	10	101 ±	12	51 ±	3	176 ±	7**
	2000	2	13 ±	0	118 ±	9	106 ±	6	51 ±	4	196 ±	6**

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (MG)		SPLEEN (MG)		LIVER (MG)		BRAIN (MG)	
FEMALE	0	10	145 ±	5	52 ±	10	942 ±	114	463 ±	9
	24.7	10	149 ±	12	58 ±	12	1025 ±	134	460 ±	12
	74.1	10	145 ±	14	61 ±	13	1048 ±	69*	455 ±	16
	222	10	146 ±	10	73 ±	10***	1037 ±	88	455 ±	10
	667	10	172 ±	6***	136 ±	38***	1005 ±	51	452 ±	23
	2000	2	196 ±	18	191 ±	33	1001 ±	62	434 ±	11**

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

付録表Ⅲ－３３

臓器重量（体重比）・総括表  
（マウス・１３週間試験）

付録表Ⅲ-33

臓器重量(体重比)・総括表  
(マウス・13週間試験)

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)	THYMUS (%)	ADRENAL R (%)	ADRENAL L (%)	TESTIS R (%)
MALE	0	10	34.0 ± 2.2	0.109 ± 0.021	0.014 ± 0.004	0.015 ± 0.004	0.308 ± 0.070
	24.7	10	34.4 ± 2.8	0.117 ± 0.017	0.014 ± 0.004	0.014 ± 0.002	0.344 ± 0.056
	74.1	10	35.0 ± 2.3	0.118 ± 0.015	0.014 ± 0.004	0.014 ± 0.003	0.332 ± 0.030
	222	10	33.3 ± 3.4	0.110 ± 0.019	0.015 ± 0.003	0.017 ± 0.004	0.341 ± 0.069
	667	10	28.9 ± 1.6***	0.117 ± 0.020	0.015 ± 0.003	0.016 ± 0.004	0.399 ± 0.085*
	2000	6	24.0 ± 1.5***	0.140 ± 0.033*	0.020 ± 0.002**	0.019 ± 0.002	0.470 ± 0.062**

SIGNIFICANT DIFFERENCE: \* : P&lt;0.05 \*\* : P&lt;0.01 \*\*\* : P&lt;0.001

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	TESTIS L (%)	HEART (%)	LUNG R (%)	LUNG L (%)	KIDNEY R (%)
MALE	0	10	0.312 ± 0.066	0.446 ± 0.034	0.296 ± 0.030	0.154 ± 0.013	0.667 ± 0.055
	24.7	10	0.341 ± 0.053	0.445 ± 0.033	0.298 ± 0.018	0.156 ± 0.016	0.663 ± 0.044
	74.1	10	0.329 ± 0.028	0.451 ± 0.040	0.300 ± 0.032	0.151 ± 0.010	0.644 ± 0.058
	222	10	0.328 ± 0.068	0.483 ± 0.043	0.305 ± 0.043	0.162 ± 0.013	0.679 ± 0.060
	667	10	0.390 ± 0.079*	0.509 ± 0.027***	0.382 ± 0.049***	0.190 ± 0.009***	0.802 ± 0.056**
	2000	6	0.462 ± 0.052***	0.592 ± 0.048***	0.422 ± 0.024***	0.228 ± 0.010***	0.953 ± 0.065**

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0029

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (%)	LUNG (%)	LIVER (%)	BRAIN (%)
MALE	0	10	0.663 ± 0.056	0.149 ± 0.012	3.521 ± 0.362	1.307 ± 0.077
	24.7	10	0.661 ± 0.037	0.151 ± 0.014	3.561 ± 0.140	1.298 ± 0.089
	74.1	10	0.628 ± 0.057	0.154 ± 0.011	3.611 ± 0.279	1.296 ± 0.091
	222	10	0.653 ± 0.058	0.200 ± 0.033***	3.925 ± 0.281*	1.338 ± 0.147
	667	10	0.751 ± 0.045**	0.316 ± 0.069***	4.280 ± 0.206***	1.503 ± 0.080***
	2000	6	0.914 ± 0.072***	0.566 ± 0.125***	4.996 ± 0.278***	1.764 ± 0.067***

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)	THYMUS (%)	ADRENAL R (%)	ADRENAL L (%)	OVARY R (%)
FEMALE	0	10	20.5 ± 1.9	0.170 ± 0.036	0.029 ± 0.007	0.032 ± 0.003	0.064 ± 0.027
	24.7	10	21.2 ± 2.1	0.181 ± 0.026	0.027 ± 0.004	0.032 ± 0.005	0.064 ± 0.016
	74.1	10	20.6 ± 1.2	0.170 ± 0.022	0.030 ± 0.009	0.030 ± 0.006	0.071 ± 0.021
	222	10	19.7 ± 0.8	0.175 ± 0.043	0.031 ± 0.008	0.034 ± 0.004	0.061 ± 0.016
	667	10	19.2 ± 0.5	0.172 ± 0.019	0.028 ± 0.007	0.031 ± 0.004	0.059 ± 0.017
	2000	2	18.5 ± 1.8	0.231 ± 0.024#	0.035 ± 0.007	0.038 ± 0.004	0.064 ± 0.017

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0039

WEEK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	OVARY L (%)	HEART (%)	LUNG R (%)	LUNG L (%)	KIDNEY R (%)
FEMALE	0	10	0.071 ± 0.044	0.584 ± 0.042	0.481 ± 0.047	0.251 ± 0.023	0.751 ± 0.081
	24.7	10	0.071 ± 0.019	0.592 ± 0.058	0.480 ± 0.058	0.249 ± 0.027	0.717 ± 0.054
	74.1	10	0.067 ± 0.012	0.624 ± 0.049	0.474 ± 0.037	0.244 ± 0.013	0.738 ± 0.025
	222	10	0.065 ± 0.013	0.671 ± 0.043***	0.519 ± 0.029*	0.267 ± 0.016	0.779 ± 0.062
	667	10	0.053 ± 0.015	0.648 ± 0.052**	0.523 ± 0.064	0.266 ± 0.019	0.918 ± 0.037**
	2000	2	0.070 ± 0.007	0.634 ± 0.011*	0.570 ± 0.020*	0.275 ± 0.003*	1.063 ± 0.132**

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



STUDY NO. : 0039

WEFK: 13

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	KIDNEY L (%)	LIVER (%)	BRAIN (%)	
FEMALE	0	10	0.711 ± 0.058	0.254 ± 0.036	4.590 ± 0.332	2.277 ± 0.213
	24.7	10	0.705 ± 0.062	0.270 ± 0.032	4.817 ± 0.290	2.183 ± 0.188
	74.1	10	0.703 ± 0.050	0.293 ± 0.055	5.083 ± 0.255**	2.211 ± 0.119
	222	10	0.762 ± 0.061	0.370 ± 0.044***	5.261 ± 0.340***	2.311 ± 0.088
	667	10	0.893 ± 0.034***	0.709 ± 0.193***	5.227 ± 0.218***	2.349 ± 0.108
	2000	2	1.063 ± 0.197	1.026 ± 0.078***	5.405 ± 0.180**	2.345 ± 0.166
SIGNIFICANT DIFFERENCE:   *: P<0.05     ***: P<0.001						

付録表Ⅲ－３４

病理組織学的所見・総括表  
(マウス・１３週間試験・死亡・瀕死動物)

付録表Ⅲ-34

## 病理組織学的所見・総括表

(マウス・13週間試験・死亡・瀕死動物)

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0039

SEX : MALE

DOSE LEVEL (PPM)		0				24.7				74.1				222				667			
NO. OF EXAMINED ANIMALS		0				24.7				74.1				222				667			
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	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LIVER	HYALINE DROPLET	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	0	0	0	0
KIDNEY	DEPOSIT OF HEMOSIDERIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLEEN	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ATROPHY	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	0	0	0	0
	HEMATOPHTHESIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYMPH NODES																					
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEART	DILATATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MUSCLE	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONE MARROW																					
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0039

SEX : MALE

DOSE LEVEL (PPM)		2000			
NO. OF EXAMINED ANIMALS		4			
ORGAN	FINDINGS	T	1	2	3
LUNG	CONGESTION	0	2	0	0
	DEPOSIT OF PIGMENT	0	1	0	0
LIVER	HYALINE DROPLET	0	3	0	0
	DEPOSIT OF PIGMENT	0	1	2	0
KIDNEY	DEPOSIT OF HEMOSIDERIN	0	1	0	0
SPLEEN	CONGESTION	0	1	0	0
	ATROPHY	0	4	0	0
	DEPOSIT OF PIGMENT	0	1	3	0
	HEMATOPUTESIS	0	2	0	0
THYMUS	ATROPHY	0	0	2	0
LYMPH NODES					
	DEPOSIT OF PIGMENT	0	2	0	0
HEART	DILATATION	0	2	0	0
MUSCLE	NECROSIS	0	4	0	0
BONE MARROW					
	DEPOSIT OF PIGMENT	0	3	0	0

+ : BENIGN    - : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0039

SEX : FEMALE

DOSE LEVEL (PPM)		0				24.7				74.1				222				467			
NO. OF EXAMINED ANIMALS		0				0				0				0				0			
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	0
LIVER	HYALINE DROPLET	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	0	0	0	0
KIDNEY	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	DEPOSIT OF HEMOSIDERIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PROTEIN CAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STOMACH	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	EROSION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UTERUS	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLEEN	ATROPHY	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	0	0	0	0
	HEMATOPHRESIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ERYTHROPHAGOCYTOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYMPH NODES																					
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEART	DILATATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MUSCLE	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONE MARROW																					
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	INFILTRATION/CELLULAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0039

SEX : FEMALE

DOSE LEVEL (PPP)		2000			
NO. OF EXAMINED ANIMALS		6			
ORGAN	FINDINGS	T	1	2	3
LUNG	CONGESTION	0	1	0	0
LIVER	HYALINE DROPLET	0	5	0	0
	DEPOSIT OF PIGMENT	0	5	1	0
KIDNEY	NECROSIS	0	2	0	0
	DEPOSIT OF HEMOSIDERIN	0	4	0	0
	PROTEIN CAST	0	2	0	0
STOMACH	CONGESTION	0	1	0	0
	EROSION	0	1	0	0
UTERUS	DEPOSIT OF PIGMENT	0	1	0	0
SPLEEN	ATROPHY	0	6	0	0
	DEPOSIT OF PIGMENT	0	3	2	0
	HEMATOPHRESIS	0	4	0	0
	ERYTHROPHAGOCYTOSIS	0	2	0	0
THYMUS	ATROPHY	0	0	4	0
LYMPH NODES					
	DEPOSIT OF PIGMENT	0	1	0	0
HEART	DILATATION	0	1	0	0
MUSCLE	NECROSIS	0	3	0	0
BONE MARROW					
	DEPOSIT OF PIGMENT	0	3	0	0
	INFILTRATION/CELLULAR	0	4	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

付録表Ⅲ－３５

病理組織学的所見・総括表

（マウス・１３週間試験・定期解剖動物）

付録表Ⅲ-35

## 病理組織学的所見・総括表

(マウス・13週間試験・定期解剖動物)

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0039

SEX : MALE

DOSE LEVEL (PPF)		0				24.7				74.1				222				667			
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 PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
LIVER	FATTY CHANGE	0	9	1	0	0	10	0	0	0	9	1	0	0	9	0	0	0	10	0	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	1	0	0
	GRANULATION	0	5	1	0	0	2	0	0	0	4	0	0	0	6	0	0	0	2	1	0
KIDNEY	VACUOLIC CHANGE	0	3	0	0	0	10	0	0	0	7	0	0	0	7	0	0	0	0	0	0
	FATTY CHANGE	0	1	0	0	0	2	0	0	0	3	0	0	0	4	0	0	0	1	0	0
	DEPOSIT OF HEMOSIDERIN	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	10	0
	REGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CYST	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
STOMACH	NECROSIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TESTIS	ATROPHY	0	1	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	0	2	0	0
SPLEEN	DEPOSIT OF PIGMENT	0	5	0	0	0	9	0	0	0	9	0	0	0	8	1	0	0	0	0	0
	HEMATOPHESIS	0	9	0	0	0	9	0	0	0	7	0	0	0	8	0	0	0	9	0	0
	ERYTHROPHAGOCYTOSIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
THYMUS	ATROPHY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYMPH NODES	DEPOSIT OF PIGMENT	0	4	0	0	0	9	0	0	0	10	0	0	0	5	0	0	0	7	0	0
PANCREAS	HYDROPIC CHANGE	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADRENAL	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0
	ECTOPIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
BONE MARROW	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	9	0	0
	INFILTRATION/CELLULAR	0	0	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0	8	0	0

+ : BENIGN    ? : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED



TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0039

SEX : MALE

DOSE LEVEL (PPH)		2000			
NO. OF EXAMINED ANIMALS		6			
ORGAN	FINDINGS	T	1	2	3
LUNG	DEPOSIT OF PIGMENT	0	6	0	0
LIVER	FATTY CHANGE	0	6	0	0
	DEPOSIT OF PIGMENT	0	0	2	4
	GRANULATION	0	0	0	0
KIDNEY	VACUOLIC CHANGE	0	0	0	0
	FATTY CHANGE	0	1	0	0
	DEPOSIT OF HEMOGLOBIN	0	0	0	6
	REGENERATION	0	0	1	0
	CYST	0	0	0	0
STOMACH	NECROSIS	0	0	0	0
TESTIS	ATROPHY	0	0	0	0
	DEPOSIT OF PIGMENT	0	6	0	0
SPLEEN	DEPOSIT OF PIGMENT	0	0	6	0
	HEMATOPHAGES	0	6	0	0
	ERYTHROPHAGOCYTOSIS	0	0	0	0
THYMUS	ATROPHY	0	1	0	0
LYMPH NODES					
	DEPOSIT OF PIGMENT	0	3	0	0
PANCREAS	HYDROPIIC CHANGE	0	0	0	0
ADRENAL	DEPOSIT OF PIGMENT	0	6	0	0
	ECTOPIC	0	1	0	0
BONE MARROW					
	DEPOSIT OF PIGMENT	0	6	0	0
	INFILTRATION/CELLULAR	0	6	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0039

SEX : FEMALE

DOSE LEVEL (PPM)		0				24.7				74.1				222				667			
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 PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
LIVER	FATTY CHANGE	0	0	1	0	0	7	2	0	0	4	6	0	0	5	1	0	0	5	1	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	7	3	0	0	0	6	4
	GRANULATION	0	4	0	0	0	5	0	0	0	5	0	0	0	2	0	0	0	4	0	0
KIDNEY	VACUOLIC CHANGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	FATTY CHANGE	0	5	0	0	0	9	0	0	0	10	0	0	0	6	0	0	0	4	0	0
	DEPOSIT OF HEPOSIDERIN	0	0	0	0	0	0	0	0	0	10	0	0	0	8	0	0	0	4	6	0
	REGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STOMACH	NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	EROSION	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UTERUS	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0
SPLEEN	DEPOSIT OF PIGMENT	0	9	1	0	0	10	0	0	0	7	2	0	0	0	9	1	0	0	9	1
	HEMATOPOIESIS	0	10	0	0	0	9	0	0	0	6	0	0	0	7	0	0	0	10	0	0
THYMUS	ATROPHY	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYMPH NODES																					
	DEPOSIT OF PIGMENT	0	10	0	0	0	7	0	0	0	7	0	0	0	10	0	0	0	6	0	0
ADRENAL	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0
	ECTOPIC	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
OVARY	DEPOSIT OF PIGMENT	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0
BONE MARROW																					
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	10	0	0
	INFILTRATION/CELLULAR	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0	9	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 13 WEEK)

STUDY NO. : 0039

SEX : FEMALE

DOSE LEVEL (PPM)		2000			
NO. OF EXAMINED ANIMALS		2			
ORGAN	FINDINGS	T	1	2	3
LUNG	DEPOSIT OF PIGMENT	0	2	0	0
LIVER	FATTY CHANGE	0	1	0	0
	DEPOSIT OF PIGMENT	0	0	0	2
	GRANULATION	0	0	0	0
KIDNEY	VACUOLIC CHANGE	0	0	0	0
	FATTY CHANGE	0	1	0	0
	DEPOSIT OF HEMOSIDERIN	0	0	0	2
	REGENERATION	0	2	0	0
STOMACH	NECROSIS	0	0	0	0
	EROSION	0	0	0	0
UTERUS	DEPOSIT OF PIGMENT	0	2	0	0
SPLEEN	DEPOSIT OF PIGMENT	0	0	0	2
	HEMATOPOIESIS	0	2	0	0
THYMUS	ATROPHY	0	0	0	0
LYMPH NODES					
	DEPOSIT OF PIGMENT	0	2	0	0
ADRENAL	DEPOSIT OF PIGMENT	0	2	0	0
	ECTOPIC	0	0	0	0
OVARY	DEPOSIT OF PIGMENT	0	2	0	0
BONE MARROW					
	DEPOSIT OF PIGMENT	0	2	0	0
	INFILTRATION/CELLULAR	0	2	0	0

+ : BENIGN    K : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

付録表Ⅲ－３６

肉眼所見・総括表

（マウス・がん原性試験・死亡・瀕死動物）

付録表Ⅲ-36

## 肉眼所見・総括表

(マウス・癌原性試験・死亡・瀕死動物)

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPM)		0		20		60		180	
NO. OF EXAMINED ANIMALS		12	5	12	8	14	7	11	10
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
SKIN	SCARRED	1	0	0	0	0	0	0	0
	MASS	0	0	0	0	0	1	0	0
	ULCER	0	0	0	0	0	0	0	1
HAIR	REDUCED	0	0	0	1	0	0	0	0
SUBCUTANEOUS TISSUE	EDEMA	1	1	1	0	0	0	0	1
	MASS	0	1	0	0	0	0	0	1
	NODULE	1	0	0	0	0	0	0	0
SOFT TISSUE	NODULE	0	0	1	0	4	1	0	2
	REDDISH	0	0	0	1	0	0	0	0
EYE	FLUID	1	0	0	0	0	0	0	0
HINDLIMB	NODULE	0	0	0	1	0	0	0	0
HARDERIAN GLAND	ENLARGED	0	0	0	0	0	0	0	1
	GRAYISH	0	0	0	0	0	0	0	1
CRANIAL CAVITY	ABSCESSES	0	0	0	0	0	0	0	1
BRAIN	HEMORRHAGE	0	0	0	0	0	0	0	1
PITUITARY	ENLARGED	0	1	0	0	0	0	0	0
SPINAL CORD	HEMORRHAGE	0	0	0	0	0	0	0	1
BONE	SOFT	0	0	0	0	0	0	1	0
WHOLE BODY	ANEMIC	0	0	1	1	0	0	0	0
	WASTING	0	0	0	0	1	0	0	0
	FATTY	1	0	0	1	0	0	0	0
	AUTOLYSIS	12	0	9	0	14	0	10	0
THYMUS	REDUCED	2	0	0	1	0	0	1	0
LUNG	CONGESTION	2	0	2	0	0	0	1	0
	EDEMA	1	0	1	0	0	0	0	0
	NODULE	3	1	3	0	6	1	5	4
	REDDISH	0	0	3	0	5	0	1	0
	WHITE PATCH/ZONE	1	0	0	0	0	1	0	0
	RED PATCH/ZONE	2	0	0	0	0	0	0	2
	BLACK PATCH/ZONE	0	0	0	0	0	0	1	1
THORACIC CAVITY	HEMORRHAGE	0	0	1	0	1	0	0	0
	MASS	0	0	1	0	0	0	0	0
	FLUID	1	0	2	1	0	0	1	2
DIAPHRAGMA	NODULE	0	0	0	0	1	0	0	0
HEART	NODULE	1	0	0	0	0	0	0	0
VENTRICLE	DILATED	0	0	1	0	1	0	0	0
	WHITE	0	0	0	0	0	0	0	1
	WHITE PATCH/ZONE	0	0	0	0	0	0	1	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPM)		0		20		60		180	
NO. OF EXAMINED ANIMALS		12	5	12	8	14	7	11	10
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
ATRIUM	DILATED	1	0	2	0	1	0	0	0
	WHITE	1	0	0	0	0	0	0	0
ABDOMINAL CAVITY	HEMORRHAGE	1	0	1	0	2	0	0	1
	NODULE	0	0	1	0	0	0	0	0
	FLUID	1	2	1	1	0	1	1	2
LIVER	ANEMIC	0	0	1	0	0	0	0	0
	ENLARGED	1	2	0	1	1	0	0	2
	NODULE	7	3	6	2	8	3	8	5
	ADHESION	0	0	0	0	0	1	0	0
	PALE	0	1	0	0	0	0	0	0
	WHITE	0	0	0	0	1	0	0	1
	WHITE PATCH/ZONE	1	0	1	3	0	0	1	4
	RED PATCH/ZONE	1	0	1	0	1	0	0	0
	BLACK PATCH/ZONE	0	0	0	0	1	0	0	0
GALL BLADDER	DILATED	0	0	0	0	0	0	0	2
SPLEEN	ENLARGED	0	0	1	0	0	1	2	2
	ATROPHIC	0	1	0	0	0	0	0	0
	NODULE	1	0	1	1	1	1	0	0
	WHITE PATCH/ZONE	1	0	0	0	0	1	0	0
	RED PATCH/ZONE	1	0	0	0	0	0	0	0
	BLACK PATCH/ZONE	2	1	2	1	0	0	0	0
	SMALL	0	0	0	1	0	0	0	0
STOMACH	DILATED	0	1	0	0	0	0	0	0
	FLUID	0	0	1	0	0	0	0	1
FORESTOMACH	ULCER	0	0	0	0	1	1	0	0
	FLUID	0	0	0	0	0	0	0	1
GLANDULAR STOMACH	HEMORRHAGE	1	0	0	0	0	1	1	0
	MASS	0	0	0	1	0	0	0	0
	NODULE	0	0	0	0	1	0	0	0
	ULCER	0	0	0	1	0	2	0	0
	FLUID	0	0	0	0	1	1	0	1
	THICK	0	1	3	2	3	3	3	4
	RED PATCH/ZONE	0	0	0	0	0	0	1	0
	BLACK PATCH/ZONE	0	1	0	0	1	1	0	0
PANCREAS	NODULE	0	0	0	0	2	0	0	0
SMALL INTESTINE	DILATED	0	1	0	0	0	0	0	1
	FLUID	0	0	0	1	0	0	0	1
LARGE INTESTINE	DILATED	0	1	0	0	0	0	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPM)		0		20		60		180	
NO. OF EXAMINED ANIMALS		12	5	12	8	14	7	11	10
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
LARGE INTESTINE									
	FLUID	0	0	0	0	0	0	0	1
CECUM	FLUID	0	0	0	1	0	0	0	0
PERITONEUM	NODULE	1	0	0	0	0	0	0	0
RETROPERITONEUM									
	NODULE	0	0	0	1	0	0	0	0
ADRENAL	ENLARGED	1	0	0	0	0	0	0	0
KIDNEY	ENLARGED	1	0	0	1	1	0	1	0
	GRANULAR	0	0	0	0	0	0	0	1
	NODULE	1	0	0	0	1	0	0	1
	CYST	1	0	0	0	0	0	0	0
	WHITE PATCH/ZONE	0	0	1	0	0	0	0	0
	HYDRONEPHROSIS	1	0	1	1	0	1	0	1
URETER	DILATED	0	0	1	1	0	0	0	0
	THICK	0	0	0	0	1	0	0	0
URINARY BLADDER									
	HEMORRHAGE	1	0	0	0	0	0	0	0
	DILATED	2	0	3	0	1	0	2	1
	NODULE	1	0	0	0	0	0	0	0
	FLUID	0	0	0	1	0	0	0	0
	THICK	0	0	0	1	0	0	1	0
TESTIS	ATROPHIC	0	0	0	1	0	0	0	0
	BROWN	1	0	0	0	0	0	0	0
	WHITE PATCH/ZONE	0	0	0	0	0	0	0	1
EPIDIDYMIS	NODULE	0	0	0	0	1	0	0	0
	RED PATCH/ZONE	0	0	0	0	0	0	0	1
PROSTATE	NODULE	0	0	0	0	0	1	0	0
SEMINAL VESICLE									
	ENLARGED	4	0	3	5	3	1	1	0
	NODULE	0	0	0	1	1	0	1	0
	REDDISH	1	0	0	0	0	1	1	0
	YELLOWISH	0	0	1	0	0	0	0	0
	BROWN	1	0	0	1	1	1	1	1
	BLACK	0	0	0	0	1	0	0	1
COAGULATION GLAND									
	ENLARGED	0	0	0	0	1	1	0	0
PREPUTIAL GLAND									
	ENLARGED	0	0	0	0	1	0	0	0
	NODULE	0	0	2	0	0	0	0	0
LYMPH NODE	ENLARGED	1	0	2	1	6	0	2	1

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0060

SEX : FEMALE

DOSE LEVEL (PPM)		0		20		60		180	
NO. OF EXAMINED ANIMALS		16	13	16	14	15	9	10	9
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
HAIR	REDUCED	0	0	1	1	1	0	0	0
SURCUTANEOUS TISSUE	HEMORRHAGE	0	1	0	1	0	0	0	0
	EDEMA	4	5	1	6	5	2	3	1
	MASS	0	0	0	0	2	0	0	1
	YELLOWISH	0	0	0	0	0	1	0	1
SOFT TISSUE	NODULE	0	1	0	0	0	2	0	1
EAR	MISSING	0	0	0	0	1	0	0	0
HINDLIMB	NODULE	1	0	0	0	0	0	0	0
HARDERIAN GLAND	ENLARGED	0	0	0	0	0	0	1	0
	BROWN	0	0	0	0	0	0	0	1
	BLACK PATCH/ZONE	0	0	0	0	0	0	0	1
NASAL CAVITY	HEMORRHAGE	0	0	0	0	0	0	1	0
CRANIAL CAVITY	FLUID	0	0	0	0	0	0	0	1
BRAIN	HEMORRHAGE	0	0	0	1	0	0	0	0
	ABSCESS	0	0	0	0	0	0	0	1
CEREBELLUM	HEMORRHAGE	0	0	0	0	1	0	0	0
PITUITARY	ENLARGED	0	0	2	2	1	0	1	2
	CYST	0	0	0	0	1	0	0	0
	RED PATCH/ZONE	0	0	0	1	0	0	1	1
SPINAL CORD	HEMORRHAGE	0	0	0	1	0	0	0	0
BONE	NODULE	0	0	0	0	0	0	0	1
WHOLE BODY	ANEMIC	1	0	2	1	0	2	1	0
	YELLOWISH	0	0	0	0	0	0	0	1
	WASTING	0	0	0	2	0	0	0	1
	AUTOLYSIS	15	0	14	0	14	0	7	0
THYROID	ENLARGED	0	0	0	0	0	1	0	0
THYMUS	REDUCED	0	0	0	0	1	0	0	1
	ATROPHIC	1	0	0	0	0	0	0	0
LUNG	CONGESTION	1	0	0	0	1	0	0	0
	EDEMA	3	0	2	1	0	0	2	0
	NODULE	1	3	1	0	1	0	0	1
	REDDISH	5	0	4	1	2	0	4	1
	WHITE PATCH/ZONE	0	1	0	1	0	0	0	0
	RED PATCH/ZONE	0	1	1	1	1	0	0	0
	BLACK PATCH/ZONE	0	0	0	0	0	0	0	1
	COLOR PATCH/ZONE	0	0	0	0	1	0	0	2
THORACIC CAVITY	HEMORRHAGE	0	0	2	1	3	2	0	1

D: DEAD M: MORIBUND



TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0060

SEX : FEMALE

DOSE LEVEL (PPM)		0		20		60		180	
NO. OF EXAMINED ANIMALS		16	13	16	14	15	9	10	9
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
THORACIC CAVITY									
	FLUID	10	4	5	4	1	1	5	1
MEDIASTINUM	MASS	2	0	0	0	0	0	0	0
	NODULE	0	0	1	0	0	0	0	0
HEART SAC	WHITE	1	0	0	0	0	0	0	0
ATRIUM	REDDISH	0	0	0	1	0	0	0	0
TONGUE	NODULE	0	1	0	0	0	0	0	0
ABDOMINAL CAVITY									
	HEMORRHAGE	4	2	4	2	6	3	1	0
	MASS	0	0	0	0	0	0	1	0
	FLUID	3	5	4	6	3	3	6	2
LIVER	HEMORRHAGE	0	0	0	0	1	0	0	0
	ANEMIC	0	0	1	0	0	0	0	0
	ENLARGED	2	2	1	5	5	2	2	1
	SWOLEN	2	1	0	0	1	0	1	0
	GRANULAR	0	0	0	1	1	0	0	0
	NODULAR	1	1	0	0	0	0	0	0
	NODULE	2	3	2	0	3	1	1	3
	CYST	0	1	0	0	0	0	0	0
	ADHESION	0	0	0	1	0	0	0	0
	TURBID	1	0	0	0	0	0	0	0
	PALE	1	0	0	0	0	0	0	0
	REDDISH	1	0	0	0	0	0	0	0
	BROWN	0	0	1	0	0	0	0	0
	WHITE PATCH/ZONE	3	3	2	5	6	2	4	1
	RED PATCH/ZONE	0	1	3	0	2	0	0	1
	COLOR PATCH/ZONE	0	0	0	1	1	0	0	0
GALL BLADDER	DILATED	1	1	2	1	0	0	1	1
BILE DUCT	DILATED	0	0	0	0	0	1	0	0
SPLEEN	INFARCT	1	0	0	0	0	0	0	0
	ENLARGED	7	7	8	5	6	4	3	2
	DEFORMED	1	0	0	0	0	0	0	0
	NODULE	1	2	0	0	1	0	1	0
	WOUND	1	0	0	0	0	0	0	0
FORESTOMACH	THICK	0	0	0	0	1	0	0	0
GLANDULAR STOMACH									
	HEMORRHAGE	1	0	0	0	0	0	0	0
	ULCER	1	1	1	1	0	0	0	0
	FLUID	0	2	0	0	0	0	1	0
	THICK	3	2	3	7	2	4	2	1
	RED PATCH/ZONE	1	0	1	0	0	0	0	0

D: DEAD M: MORIBUND

TABLE SUMMARY OF GROSS FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0060

SEX : FEMALE

DOSE LEVEL (PPM)		0		20		60		180	
NO. OF EXAMINED ANIMALS		16	13	16	14	15	9	10	9
ORGAN	FINDINGS	D	M	D	M	D	M	D	M
GLANDULAR STOMACH									
	BLACK PATCH/ZONE	0	0	0	0	0	0	1	1
PANCREAS	NODULE	2	0	0	0	4	1	1	0
SMALL INTESTINE									
	NODULE	0	0	0	0	1	0	0	0
JEJUNUM	DILATED	0	1	0	0	0	0	0	0
	NODULE	1	0	0	0	0	0	0	0
CECUM	FLUID	0	0	0	0	0	0	0	1
PERITONEUM	WHITE	0	1	0	0	0	0	0	0
RETROPERITONEUM									
	NODULE	0	0	0	0	0	1	0	0
ADRENAL	ENLARGED	1	0	0	0	0	0	0	0
KIDNEY	ANEMIC	1	0	0	0	0	0	0	0
	ENLARGED	0	0	0	0	1	0	0	0
	GRANULAR	0	0	0	1	0	0	0	1
	NODULE	0	1	0	0	1	1	0	0
	PALE	0	0	0	0	2	0	0	0
	WHITE PATCH/ZONE	0	1	0	0	0	0	0	0
	HYDRONEPHROSIS	0	0	0	1	1	1	0	0
URETER	DILATED	0	0	0	0	0	1	0	0
URINARY BLADDER									
	HEMORRHAGE	0	1	0	0	0	0	0	0
	DILATED	0	0	0	0	1	0	0	0
	RED PATCH/ZONE	1	0	0	0	0	0	0	0
OVARY	ENLARGED	7	2	6	5	5	3	2	0
	CYST	2	1	0	0	2	0	0	1
	FLUID	1	0	0	1	0	0	1	2
	SOFT	0	0	0	0	0	1	0	0
UTERUS	DILATED	1	0	0	0	0	0	0	0
	ENLARGED	2	0	0	0	2	1	0	0
	NODULAR	1	0	0	1	0	0	1	1
	NODULE	4	5	2	4	3	3	3	2
VAGINA	NODULE	0	0	0	1	0	0	1	0
LYMPH NODE	ENLARGED	8	6	5	5	6	2	4	6
	REDDISH	0	1	0	0	0	0	0	0

D: DEAD M: MORIBUND

付録表Ⅲ－３７

肉眼所見・総括表  
(マウス・がん原性試験・定期解剖動物)

## 付録表Ⅲ-37

## 肉眼所見・総括表

(マウス・癌原性試験・定期解剖動物)

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPM)		0	20	60	180
NO. OF EXAMINED ANIMALS		33	30	26	29
ORGAN	FINDINGS				
SKIN	WOUND	0	1	1	0
	ULCER	0	0	0	1
SUBCUTANEOUS TISSUE	MASS	1	3	2	0
	NODULE	1	0	0	0
	YELLOWISH	0	0	0	1
SOFT TISSUE	ENLARGED	0	0	0	1
	NODULE	7	5	9	8
TAIL	ENLARGED	0	1	0	0
	NODULE	0	1	0	1
HARDERIAN GLAND	NODULE	1	1	1	3
PITUITARY	CYST	0	0	0	1
PERIPHERAL NERVE	YELLOWISH	0	0	1	0
MUSCLE	NODULE	1	0	0	0
WHOLE BODY	ANEMIC	0	1	0	0
	AUTOLYSIS	2	0	0	0
THYMUS	ENLARGED	0	0	0	2
	MASS	0	0	0	1
LUNG	NODULE	11	8	9	7
	WHITE PATCH/ZONE	0	1	0	0
THORACIC CAVITY	FLUID	1	0	0	1
MEDIASTINUM	MASS	0	0	0	1
DIAPHRAGM	ADHESION	0	0	0	1
ABDOMINAL CAVITY	FLUID	2	1	0	2
LIVER	ATROPHIC	0	0	2	0
	NODULE	19	22	19	21
	ULCER	0	1	0	0
	CYST	3	0	0	1
	ADHESION	0	1	0	0
	YELLOWISH	0	0	1	0
	WHITE PATCH/ZONE	1	1	0	0
	RED PATCH/ZONE	2	0	0	0
	COLOR PATCH/ZONE	0	0	1	0
GALL BLADDER	DILATED	0	0	1	0
SPLEEN	ENLARGED	2	1	4	4
	NODULE	6	1	2	2
	BLACK	0	1	1	2

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPM)		0	20	60	180
NO. OF EXAMINED ANIMALS		33	30	26	29
ORGAN	FINDINGS				
SPLEEN	WHITE PATCH/ZONE	1	2	0	0
	BLACK PATCH/ZONE	1	1	1	1
	COLOR PATCH/ZONE	0	0	1	0
STOMACH	NODULE	1	0	0	0
	FORESTOMACH				
GLANDULAR STOMACH	NODULE	1	1	0	1
	NODULE	0	1	0	0
	ULCER	2	0	1	0
PANCREAS	THICK	1	1	0	0
	HEMORRHAGE	0	0	1	0
	MASS	0	0	0	2
	NODULE	2	1	0	1
	RED PATCH/ZONE	0	0	1	0
JEJUNUM	NODULE	0	0	0	1
LARGE INTESTINE					
	NODULE	0	1	1	0
PERITONEUM	NODULE	0	0	0	1
	ADHESION	0	0	0	1
ADRENAL	NODULE	1	0	0	0
	BROWN	0	1	0	0
KIDNEY	ANEMIC	1	1	0	0
	ENLARGED	1	1	0	0
	NODULE	0	0	1	0
	WHITE PATCH/ZONE	0	0	2	0
	COLOR PATCH/ZONE	0	1	0	0
URETER	HYDRONEPHROSIS	1	0	0	1
	DILATED	2	0	1	0
URINARY BLADDER					
	DILATED	1	0	1	1
	MASS	1	0	0	0
	FLUID	0	1	0	0
TESTIS	ENLARGED	0	1	0	0
	NODULE	2	5	1	3
EPIDIDYMIS	NODULE	4	0	1	2
	RED PATCH/ZONE	0	0	0	1
SEMINAL VESICLE					
	ENLARGED	29	26	20	24
	ATROPHIC	0	1	0	0
PREPUTIAL GLAND	INDURATION	1	0	0	0
	ENLARGED	0	1	0	0
	NODULE	6	4	2	3
	CYST	2	5	2	3

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPM)		0	20	60	180
NO. OF EXAMINED ANIMALS		33	30	26	29
ORGAN	FINDINGS				
LYMPH NODE	ENLARGED	7	5	8	6

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0060

SEX : FEMALE

DOSE LEVEL (PPM)		0	20	60	180
NO. OF EXAMINED ANIMALS		21	20	26	31
ORGAN	FINDINGS				
SUBCUTANEOUS TISSUE					
	MASS	0	1	1	3
SOFT TISSUE					
	NODULE	0	2	3	3
EYE	NODULE	1	0	0	0
HARDERIAN GLAND					
	ENLARGED	0	0	0	1
	NODULE	0	0	1	1
PITUITARY	ENLARGED	2	2	2	4
	NODULE	2	5	5	5
	RED PATCH/ZONE	1	1	0	1
WHOLE BODY					
	ANEMIC	1	0	0	0
	WASTING	0	0	0	1
	AUTOLYSIS	0	0	0	2
THYROID	ENLARGED	0	0	0	1
THYMUS	ENLARGED	0	0	0	1
LUNG					
	ATROPHIC	0	0	1	1
	NODULE	2	4	4	2
	REDDISH	0	0	0	2
	COLORRED PATCH/ZONE	0	0	0	1
THORACIC CAVITY					
	FLUID	2	0	2	5
ABDOMINAL CAVITY					
	HEMORRHAGE	2	0	0	1
	FLUID	3	1	1	0
LIVER					
	SCARRED	1	0	0	0
	GRANULAR	0	0	0	2
	NODULE	7	6	7	13
	ULCER	0	1	0	0
	CYST	0	0	1	0
	WHITE PATCH/ZONE	1	0	1	1
	RED PATCH/ZONE	0	0	1	0
GALL BLADDER					
	DILATED	0	0	0	1
SPLEEN					
	ENLARGED	8	2	5	8
	NODULE	0	1	0	1
	BLACK	1	0	1	3
	WHITE PATCH/ZONE	0	0	1	2
	BLACK PATCH/ZONE	1	0	0	0
FORESTOMACH					
	NODULE	0	1	0	1
GLANDULAR STOMACH					
	ULCER	1	0	0	1
	THICK	1	0	0	1

TABLE SUMMARY OF GROSS FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0060

SEX : FEMALE

DOSE LEVEL (PPM)		0	20	60	180
NO. OF EXAMINED ANIMALS		21	20	26	31
ORGAN	FINDINGS				
GLANDULAR STOMAC					
	RED PATCH/ZONE	0	0	0	1
PANCREAS	NODULE	0	2	0	4
MESENTERIUM					
	NODULE	0	1	0	0
	THICK	1	0	0	0
RETROPERITONEUM					
	MASS	0	0	0	2
KIDNEY					
	ENLARGED	0	0	0	1
	NODULE	1	0	0	1
	YELLOWISH	0	1	0	0
OVARY					
	ENLARGED	1	0	1	0
	CYST	6	4	8	6
	FLUID	1	1	1	1
UTERUS					
	ENLARGED	0	1	0	0
	MASS	0	1	0	0
	NODULE	2	2	0	3
	DILATED LUMEN	0	0	0	1
LYMPH NODE					
	ENLARGED	8	1	6	6
	REDDISH	0	0	0	1



付録表Ⅲ－３８

臓器重量（実重量）・総括表  
（マウス・がん原性試験）

付録表Ⅲ－38 臓器重量（実重量）・総括表  
（マウス・癌原性試験）

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)	ADRENAL R (MG)	ADRENAL L (MG)	TESTIS R (MG)	TESTIS L (MG)
MALE	CONTROL	33	46.9 ± 7.4	5 ± 1	9 ± 24	124 ± 23	117 ± 26
	20	30	46.6 ± 6.9	5 ± 1	5 ± 2	122 ± 32	119 ± 30
	60	26	44.0 ± 7.2	4 ± 1	5 ± 1	123 ± 28	125 ± 26
	180	29	44.2 ± 8.2	5 ± 1	5 ± 1	118 ± 27	115 ± 21

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	HEART (MG)	LUNG R (MG)	LUNG L (MG)	KIDNEY R (MG)	KIDNEY L (MG)
MALE	CONTROL	43	222 ± 26	175 ± 204	78 ± 38	371 ± 97	371 ± 51
	20	30	220 ± 17	131 ± 20	70 ± 9	349 ± 47	570 ± 1214
	60	26	212 ± 20	153 ± 65	76 ± 19	339 ± 30	345 ± 408
	180	29	221 ± 24	151 ± 45	79 ± 21	347 ± 38	349 ± 43

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	SPLEEN (MG)		LIVER (MG)		BRAIN (MG)	
MALE	CONTROL	33	137 ±	129	1969 ±	754	456 ±	13
	20	30	122 ±	113	1898 ±	583	453 ±	16
	60	26	166 ±	172	1997 ±	677	458 ±	18
	180	22	241 ±	403	2326 ±	1170	455 ±	15

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)	ADRENAL R (MG)	ADRENAL L (MG)	OVARY R (MG)	OVARY L (MG)
FEMALE	CONTROL	21	36.0 ± 5.4	5 ± 1	6 ± 1	39 ± 78	35 ± 82
	20	20	35.0 ± 4.8	6 ± 1	6 ± 1	15 ± 12	13 ± 3
	60	26	35.4 ± 5.4	6 ± 1	6 ± 1	33 ± 97	95 ± 295
	180	31	33.6 ± 5.3	5 ± 1	6 ± 1	19 ± 27	37 ± 56

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	HEART (MG)		LUNG R (MG)		LUNG L (MG)		KIDNEY R (MG)		KIDNEY L (MG)	
FEMALE	CONTROL	21	157 ±	15	130 ±	24	70 ±	15	230 ±	38	235 ±	71
	20	20	169 ±	36	125 ±	12	64 ±	6	222 ±	32	226 ±	27
	60	26	167 ±	16	127 ±	18	69 ±	9	220 ±	15	218 ±	20
	180	31	178 ±	44**	152 ±	43*	80 ±	22	244 ±	62	247 ±	84

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

TABLE ABSOLUTE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	SPLLEN (MG)	LIVER (MG)	BRAIN (MG)
FEMALE	CONTROL	21	387 ± 600	1675 ± 459	480 ± 13
	20	20	253 ± 434	1507 ± 456	475 ± 12
	60	26	209 ± 185	1525 ± 231	481 ± 14
	180	31	308 ± 425	1675 ± 455	477 ± 11

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

付録表Ⅲ－３９

臓器重量（体重比）・総括表  
（マウス・がん原性試験）



付録表Ⅲ-39

臓器重量(体重比)・総括表  
(マウス・癌原性試験)

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)	ADRENAL R (%)	ADRENAL L (%)	TESTIS R (%)	TESTIS L (%)
MALE	CONTROL	33	46.9 ± 7.4	0.010 ± 0.003	0.027 ± 0.007	0.271 ± 0.071	0.255 ± 0.069
	20	30	46.6 ± 6.9	0.010 ± 0.003	0.011 ± 0.005	0.263 ± 0.061	0.259 ± 0.065
	60	26	44.0 ± 7.2	0.010 ± 0.003	0.011 ± 0.002	0.288 ± 0.092	0.294 ± 0.083
	180	29	44.2 ± 8.2	0.011 ± 0.003	0.011 ± 0.004	0.274 ± 0.072	0.264 ± 0.047

SIGNIFICANT DIFFERENCE: \* : P&lt;0.05 \*\* : P&lt;0.01 \*\*\* : P&lt;0.001

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	HEART (%)	LUNG R (%)	LUNG L (%)	KIDNEY R (%)	KIDNEY L (%)
MALE	CONTROL	33	0.484 ± 0.082	0.446 ± 0.037	0.172 ± 0.088	0.801 ± 0.186	0.806 ± 0.142
	20	30	0.485 ± 0.111	0.292 ± 0.086	0.156 ± 0.047	0.766 ± 0.163	1.359 ± 3.315
	60	26	0.493 ± 0.078	0.359 ± 0.167	0.178 ± 0.056	0.789 ± 0.135	0.802 ± 0.141
	180	29	0.514 ± 0.100	0.357 ± 0.146	0.189 ± 0.078	0.805 ± 0.150	0.813 ± 0.174

SIGNIFICANT DIFFERENCE: R: P&lt;0.05    RR: P&lt;0.01    RRR: P&lt;0.001

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	SPLFEE (%)	LIVER (%)	BRAIN (%)
MALE	CONTROL	33	0.303 ± 0.287	4.331 ± 1.983	0.998 ± 0.170
	20	30	0.268 ± 0.248	4.242 ± 1.787	0.999 ± 0.211
	60	26	0.407 ± 0.451	4.674 ± 1.876	1.073 ± 0.225
	180	29	0.620 ± 1.087	5.562 ± 3.489	1.062 ± 0.197

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	BODY WEIGHT (G)	ADRENAL R (%)	ADRENAL L (%)	OVARY R (%)	OVARY L (%)
FEMALE	CONTROL	21	36.0 ± 5.4	0.015 ± 0.003	0.017 ± 0.004	0.108 ± 0.215	0.097 ± 0.213
	20	20	35.0 ± 4.8	0.017 ± 0.003	0.018 ± 0.004	0.044 ± 0.031	0.036 ± 0.007
	60	26	35.4 ± 5.4	0.016 ± 0.002	0.018 ± 0.004	0.105 ± 0.331	0.249 ± 0.747
	180	31	33.6 ± 5.3	0.016 ± 0.004	0.020 ± 0.005*	0.054 ± 0.067	0.112 ± 0.183

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	HEART (%)	LUNG R (%)	LUNG L (%)	KIDNEY R (%)	KIDNEY L (%)
FEMALE	CONTROL	21	0.444 ± 0.060	0.370 ± 0.091	0.199 ± 0.052	0.652 ± 0.151	0.667 ± 0.234
	20	20	0.486 ± 0.102	0.362 ± 0.053	0.185 ± 0.024	0.641 ± 0.116	0.656 ± 0.118
	60	26	0.479 ± 0.070	0.369 ± 0.086	0.202 ± 0.051	0.634 ± 0.113	0.628 ± 0.104
	180	41	0.568 ± 0.190**	0.467 ± 0.149**	0.245 ± 0.079*	0.756 ± 0.295	0.768 ± 0.372

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

TABLE RELATIVE BODY AND ORGAN WEIGHT

STUDY NO. : 0060

WEEK: 104

SEX	DOSE LEVEL (PPM)	NO. OF ANIMALS	SPLFEE (%)	LIVER (%)	BRAIN (%)
FEMALE	CONTROL	21	1.154 ± 1.908	4.720 ± 1.366	1.360 ± 0.187
	20	20	0.687 ± 1.020	4.294 ± 0.946	1.378 ± 0.190
	60	26	0.625 ± 0.591	4.436 ± 1.195	1.393 ± 0.248
	180	31	0.907 ± 1.101	5.065 ± 1.297	1.454 ± 0.229
SIGNIFICANT DIFFERENCE: * : P≤0.05 ** : P≤0.01 *** : P≤0.001					

付録表Ⅲ－４０

病理組織学的所見・総括表  
(マウス・がん原性試験・死亡・瀕死動物)

付録表Ⅲ-40

## 病理組織学的所見・総括表

(マウス・癌原性試験・死亡・瀕死動物)

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPF)		0				20				60				180			
NO. OF EXAMINED ANIMALS		17				20				21				21			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
BRAIN	DEPOSIT OF CALCIUM	0	11	0	0	0	5	0	0	0	10	0	0	0	10	0	0
	METASTASIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
	HEPATOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	HYALINE BODY	0	9	0	0	0	10	0	0	0	10	0	0	0	10	0	0
SPINAL CORD	METASTASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
TRACHEA	EOSINOPHILIC CHANGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
LUNG	CONGESTION	0	0	3	1	0	0	3	0	0	0	3	0	0	0	1	1
	HEMORRHAGE	0	0	0	1	0	0	0	0	0	0	0	1	0	2	0	0
	THROMBUS	0	0	1	0	0	0	0	0	0	0	2	1	0	1	0	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
THYROID	METASTASIS	0	2	2	0	0	2	1	2	0	3	1	2	0	0	2	3
	*ALVEOLAR/BRONCHIOLAR ADENOMA	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	*ALVEOLAR/BRONCHIOLAR CARCINOMA	4	0	0	0	1	0	0	0	4	0	0	0	4	0	0	0
	NECROSIS	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0
LIVER	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	1	0	0	0	13	4	2
	DEPOSIT OF AMYLOID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	ANGIOECTASIS	0	0	2	0	0	0	0	1	0	0	1	2	0	0	1	2
	NECROSIS	0	1	0	3	0	0	2	0	0	1	1	0	0	0	0	0
KIDNEY	FATTY CHANGE	0	0	0	0	0	1	1	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	11	1	0
	DEPOSIT OF AMYLOID	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	INFLAMMATION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	GRANULATION	0	0	0	0	0	1	0	0	0	1	2	0	0	0	1	0
	HYPERPLASIA	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	NEPHROPTOSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	*ADENOMA	2	0	0	0	1	0	0	0	3	0	0	0	6	0	0	0
	*SARCOMA	4	0	0	0	2	0	0	0	1	0	0	0	5	0	0	0
	METASTASIS	0	0	1	0	0	0	2	2	0	0	0	0	0	0	0	1
	*EPITHELIOID CARCINOMA	4	0	0	0	5	0	0	0	6	0	0	0	7	0	0	0
	*RHEUMATOID SARCOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	PROLIFERATIVE DUCTS	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	VACUOLIC CHANGE	0	8	0	0	0	14	0	0	0	15	0	0	0	6	0	0
	HYALINE PROTEIN	0	2	2	0	0	2	2	0	0	0	1	0	0	2	2	1
	DEPOSIT OF AMYLOID	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	DEPOSIT OF HEMOSIDERIN	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	DEPOSIT OF CALCIUM	0	9	0	0	0	11	0	0	0	14	0	0	0	5	0	0
URETER	LYMPHOCYTIC INFILTRATION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	METASTASIS	0	0	0	1	0	0	2	0	0	0	1	0	0	1	0	2
	HYDRONEPHROSIS	0	0	2	0	0	0	2	0	0	0	1	1	0	0	1	0
	TUBULAR NECROSIS	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
STOMACH	*POLYP	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	ATROPHY	0	9	0	0	0	6	0	0	0	12	0	0	0	14	0	0
	EOSINOPHILIC CHANGE	0	3	0	0	0	2	0	0	0	4	0	0	0	4	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED



TABLE SUMMARY OF MICRO FINDINGS (HEAD OR NOSE/THROAT)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPH)		0				20				60				180			
NO. OF EXAMINED ANIMALS		17				20				21				21			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
STOMACH	ADENOCARCINOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	HELIOMYOSARCOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
COLON	EDENIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
URINARY BLADDER	METASTASIS	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0
TESTIS	ATROPHY	0	0	0	0	0	0	0	0	0	3	0	0	0	5	1	0
	METASTASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
EPIIDIDYMIS	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	METASTASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	+XANTHOMA	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
SEMINAL VESICLE	METASTASIS	0	2	0	0	0	1	1	0	0	0	0	0	0	1	0	0
	HELIOMYOSARCOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PROSTATE	HELIOMYOSARCOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	PROSTATITIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SPLEEN	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	HEMATOPHTHESIS	0	3	3	0	0	6	1	0	0	1	5	0	0	7	1	0
	SMALLIGANT LYMPHOMA	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	METASTASIS	0	0	0	0	0	1	1	0	0	1	0	0	0	1	1	0
	+HEPATOITOMA	2	0	0	0	0	0	0	0	4	0	0	0	1	0	0	0
	FOLLICULAR HYPERPLASIA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
LYMPH NODES	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	SMALLIGANT LYMPHOMA	1	0	0	0	4	0	0	0	6	0	0	0	2	0	0	0
	METASTASIS	0	1	0	0	0	2	0	0	0	0	0	0	0	1	0	0
	LYMPHADENITIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
PANCREATIC ISLET	+ADENOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
PANCREAS	METASTASIS	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0
SKIN	EPIDERMAL CYST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
SUBCUTANEOUS TISSUE	METASTASIS	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0
	SMALLIGANT FIBROUS HISTIOCYTOMA	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
HEART	HEMORRHAGE	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	THROMBUS	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
	FIBROSIS	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0
	DEGENERATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
ARTERY	ARTERITIS	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0
VEIN	VASCULITIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
PERIPHERAL NERVES																	
	SMALLIGANT SCHWANNOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
TONGUE	DEPOSIT OF CALCIUM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

+ : BENIGN    B : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPM)		0				20				60				180			
NO. OF EXAMINED ANIMALS		17				20				21				21			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
PITUITARY	CYST MD	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	*ADENOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADRENAL	KATHKE'S POUCH	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0
	DEPOSIT OF ADYLOID	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	HYPERPLASIA	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0
	*ADENOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	METASTASIS	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
EYE	INFLAMMATION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	CATARACT	0	2	5	0	0	10	7	0	0	9	5	0	0	13	6	0
HARDERIAN GLAND																	
	HYPERPLASIA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	*ADENOMA	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
NASAL CAVITY																	
	EOSINOPHILIC CHANGE	0	9	0	0	0	12	0	0	0	7	0	0	0	10	1	0
	DEGENERATION	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0
	DEPLASIA	0	3	1	0	0	6	4	0	0	5	2	0	0	4	1	0
TOOTH																	
	HYPERPLASIA	0	0	3	0	0	0	5	0	0	0	2	0	0	0	2	0
	*TUMOR/BENIGN	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
BONE MARROW																	
	HYPERPLASIA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	HYPERPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	LEUKEMIA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0
	GRANULOPHILS	0	0	2	0	0	0	3	0	0	2	1	1	0	0	1	0
PERITONEUM																	
	GRAVITATION	0	0	0	0	0	1	0	0	0	4	0	0	0	4	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	HEMANGIOENDOTHELIO	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	CHANGIOENDOTHELIO	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (HEAD OR NOPIRIND)

STUDY NO. : 0060

SEX : FEMALE

DOSE LEVEL (PPM)		0				20				60				180			
NO. OF EXAMINED ANIMALS																	
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
BRAIN	DEPOSIT OF CALCIUM	0	10	0	0	0	10	0	0	0	11	0	0	0	9	0	0
	INFLAMMATION	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	0	1	1	0	1	0	0	0	1	1	0
	HYALINE BODY	0	15	2	0	0	14	3	0	0	15	0	0	0	12	1	0
SPINAL CORD	HEMORRHAGE	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	NECROSIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	CONGESTION	0	0	2	1	0	1	2	1	0	0	2	0	0	0	2	0
LUNG	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	THROMBUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0
	FIBROSIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	1	3	4	0	2	6	3	0	5	3	1	0	1	4	2
	ALVEOLAR/BRONCHIOAL CARCINOMA	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	PROTEINOSIS	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	BRONCHIOEPHORENIA <i>ND</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
THYROID	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	12	0	0	0	3	11	4
	DEPOSIT OF AMYLOID <i>ND</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	DEGENERATION <i>ND</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	PC-CELL ADENOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
PARATHYROID	CYST	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
LIVER	ADENECTASIS	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	1
	NECROSIS	0	3	5	1	0	0	3	0	0	0	1	0	0	0	1	1
	DEPOSIT OF PIGMENT	0	0	0	0	0	1	0	0	0	5	0	0	0	16	1	0
	LYMPHO CYTIC INFILTRATION <i>ND</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	INFLAMMATION	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	GRANULATION	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	CYST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	HYPERPLASIA	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
	HEMATOPOTESIS	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0
	ADENOMA	1	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0
	ESARCONA	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
	METASTASIS	0	2	6	9	0	2	6	9	0	2	2	9	0	0	4	6
	HEPATOCYLLAR CARCINOMA	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	HEMANGIOSARCONA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	HYALINE PROPLET	0	1	5	5	0	1	6	1	0	2	10	1	0	5	1	0
	DEPOSIT OF AMYLOID <i>ND</i>	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0
	LYMPHO CYTIC INFILTRATION	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
KIDNEY	METASTASIS	0	3	2	1	0	1	4	1	0	1	2	1	0	0	1	0
	HYPERPLASIA	0	1	0	0	0	0	1	0	0	0	2	0	0	0	0	0
	TUBULAR NECROSIS	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
	GLMERULOSCLEROSIS	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0060

SEX : FEMALE

DOSE LEVEL (PPM)		0				20				60				180			
NO. OF EXAMINED ANIMALS																	
ORGAN	FINDINGS	29 T	1	2	3	30 T	1	2	3	24 T	1	2	3	19 T	1	2	3
URETER	INFLAMMATION	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	+POLYP	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
STOMACH	ULCEP	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
	ATROPHY	0	11	0	0	0	22	0	0	0	15	0	0	0	6	1	0
	EOSINOPHILIC CHANGE	0	6	0	0	0	7	0	0	0	6	0	0	0	6	0	0
	HYPERKERATOSIS	0	2	0	0	0	3	0	0	0	1	0	0	0	2	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	EROSION	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LARGE INTESTINE	METASTASIS	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
URINARY BLADDER																	
	+PAPILLOMA	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	2	0	0	0	1	2	0	0	1	0	0	0	0	0	0
UTERUS	THROMBUS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CHLATACTIC	0	13	3	0	0	17	1	0	0	13	4	0	0	11	0	0
	+POLYP	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	ESCAROMA	10	0	0	0	6	0	0	0	7	0	0	0	6	0	0	0
	METASTASIS	0	2	1	0	0	2	1	0	0	1	1	0	0	1	0	0
	+HEMANGIOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
VAGINA	THROMBUS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLEEN	HEPATOMEGALY	0	5	5	1	0	5	5	0	0	3	10	0	0	4	2	0
	HEPATOMEGALY	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	5	2	0	0	3	0	0	0	0	0	0	0	5	0	0
	+HEMANGIOMA	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	HEMANGIOSARCOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	COLLICULAR HYPERPLASIA	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
THYMUS	METASTASIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
LYMPH NODES																	
	MALIGNANT LYMPHOMA	12	0	0	0	10	0	0	0	7	0	0	0	10	0	0	0
	METASTASIS	0	4	0	0	0	4	0	0	0	2	1	0	0	2	1	0
PANCREAS	ATROPHY	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	1	2	0	0	2	2	0	0	2	7	0	0	1	1	3
SALIVARY GLAND																	
	METASTASIS	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0
MAMARY GLAND																	
	ADENOCARCINOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
SKIN	METASTASIS	0	0	0	1	0	1	0	1	0	0	0	0	0	1	0	0
SUBCUTANEOUS TISSUE																	
	METASTASIS	0	1	0	1	0	4	2	0	0	1	0	0	0	3	0	0
HEART	HEMORRHAGE	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	THROMBUS	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0
	LYMPHOCYTIC INFILTRATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	FIBROSIS	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (DEAD OR MORIBUND)

STUDY NO. : 0060

SEX : FEMALE

DOSE LEVEL (PPM)		0				20				60				180			
NO. OF EXAMINED ANIMALS		20				30				24				19			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
HEART	METASTASIS	0	4	0	0	0	4	0	0	0	3	0	0	0	2	0	0
ARTERY	ARTERITIS	0	0	1	1	0	1	0	0	0	0	1	0	0	0	0	0
MUSCLE	DEPOSIT OF CALCIUM	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0
	METASTASIS	0	0	1	0	0	2	1	0	0	0	0	0	0	1	0	0
	+HEMANGIOENDOTHELIOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERIPHERAL NERVES																	
	BENIGN SCHWANNOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
TONGUE	METASTASIS	0	1	1	0	0	1	0	0	0	0	0	0	0	2	0	0
PITUITARY	CYST	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	+ADENOMA	2	0	0	0	7	0	0	0	4	0	0	0	4	0	0	0
	ADENOCARCINOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	RATHKE'S POUCH	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADRENAL	VASCULIC CHANGE	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	DEPOSIT OF AMYLOID	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0
	HYPERPLASIA	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0
	+ADENOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
OVARY	THROMBUS	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	1
	ATROPHY	0	10	0	0	0	8	0	0	0	5	0	0	0	4	0	0
	CYST	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0
	METASTASIS	0	7	6	0	0	6	6	0	0	6	6	1	0	4	4	0
	+CYSTADENOMA	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0
EYE	EOSINOPHILIC CHANGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	CATARACT	0	12	7	0	0	15	7	0	0	4	11	0	0	4	13	0
	HYALINE BODY	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
HARDERIAN GLAND																	
	HYPERPLASIA	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	+ADENOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	METASTASIS	0	2	0	0	0	4	0	0	0	0	0	0	0	0	0	0
	DEGENERATION	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
NASAL CAVITY																	
	EOSINOPHILIC CHANGE	0	14	0	0	0	17	1	0	0	10	0	0	0	9	1	0
	INFLAMMATION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	METAPLASIA	0	1	0	0	0	10	0	0	0	2	0	0	0	6	0	0
	SQUAMOUS METAPLASIA	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
TOOTH	HYPERPLASIA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BONE MARROW																	
	HYPERPLASIA	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
	METASTASIS	0	4	3	0	0	4	2	0	0	3	3	2	0	3	1	0
	GRANULOCYTES	0	1	0	0	0	0	1	0	0	0	2	0	0	1	1	0
BONE	OSTEOGENIC SARCOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
PERITONEUM	GRANULATIONS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

付録表Ⅲ－４ １

病理組織学的所見・総括表

（マウス・がん原性試験・定期解剖動物）

付録表Ⅲ-41

## 病理組織学的所見・総括表

(マウス・癌原性試験・定期解剖動物)

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPD)		0				20				60				180			
NO. OF EXAMINED ANIMALS		33				30				26				29			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
BRAIN	DEPOSIT OF CALCIUM	0	19	0	0	0	14	0	0	0	19	0	0	0	17	0	0
	HYALINE BODY	0	24	3	0	0	20	5	0	0	18	3	0	0	21	2	0
LUNG	HEMORRHAGE	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	THROMBUS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	EDEMA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0
	METASTASIS	0	3	2	0	0	2	2	0	0	1	0	0	0	1	0	1
	*ALVEOLAR/BRONCHIOULAR ADENOMA	3	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
	*ALVEOLAR/BRONCHIOULAR CARCINOMA	6	0	0	0	2	0	0	0	5	0	0	0	4	0	0	0
	PROTEINOSIS	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0
THYROID	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	4	0	0	0	9	16	2
	ADENOMATOUS GLANDS	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
PARATHYROID																	
	CYST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
LIVER	ANGIOECTASIS	0	0	0	1	0	0	1	0	0	1	1	1	0	0	1	0
	NECROSIS	0	3	1	0	0	2	3	0	0	0	0	1	0	1	0	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	19	1	0
	INFLAMMATION	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0
	GRANULATION	0	13	0	0	0	10	0	0	0	8	2	0	0	7	0	0
	CYST	0	0	1	0	0	1	0	0	0	2	0	0	0	1	0	0
	HYPERPLASIA	0	1	1	0	0	4	2	0	0	0	0	0	0	1	0	0
	*ADENOMA	12	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0
	METASTASIS	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	1
	*HEPATOCELLULAR CARCINOMA	10	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0
	*HEMANGIOSARCOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	*HEPATOBLASTOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	EOSINOPHILIC FOCI	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
	CLAP CELL FOCI	0	1	0	0	0	2	0	0	0	1	0	0	0	1	0	0
	BASOPHILIC FOCI	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
KIDNEY	INFARCT	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	VACUOLIC CHANGE	0	29	0	0	0	28	0	0	0	25	0	0	0	14	0	0
	DEPOSIT OF HEMOSIDERIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	DEPOSIT OF CALCIUM	0	31	0	0	0	26	0	0	0	22	0	0	0	21	0	0
	LYMPHOCYTIC INFILTRATION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0
	HYDRONEPHROSIS	0	2	2	0	0	0	1	0	0	0	1	0	0	0	1	0
URETER	INFLAMMATION	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
STOMACH	ULCER	0	0	0	0	0	1	0	0	0	2	0	0	0	1	0	0
	ATROPHY	0	21	3	0	0	16	2	0	0	22	0	0	0	14	2	0
	EOSINOPHILIC CHANGE	0	10	1	0	0	9	1	0	0	10	0	0	0	9	0	0
	HYPERKERATOSIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	*KERATOCANTHOMA	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	EROSION	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
ILEUM	METASTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPD)		0				20				60				180			
NO. OF EXAMINED ANIMALS		33				30				26				20			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
LARGE INTESTINE	METASTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	+HEMANGIOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	RANGIOSARCOMA	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
URINARY BLADDER	METASTASIS	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
TESTIS	ATROPHY	0	8	1	0	0	11	1	0	0	5	1	0	0	14	1	0
	DEPOSIT OF CALCIUM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	+INTERSTITIAL CELL TUMOR	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
EPIDIDYMIS	INFLAMMATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	GRANULATION	0	4	0	0	0	0	0	0	0	1	0	0	0	2	0	0
	+XANTHOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEMINAL VESICLE	CYST	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
PROSTATE	+ADENOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	PROSTATITIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLEEN	HEMORRHAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	HEMATOPHESIS	0	1	2	0	0	1	2	0	0	2	2	0	0	3	0	0
	BNALIGNANT LYMPHOMA	4	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
	METASTASIS	0	0	0	0	0	2	0	0	0	2	0	0	0	3	1	0
	+HEMANGIOMA	5	0	0	0	1	0	0	0	2	0	0	0	2	0	0	0
	FOLLICULAR HYPERPLASIA	0	5	0	0	0	7	1	0	0	5	0	0	0	1	0	0
THYMUS	METASTASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LYMPH NODES	BNALIGNANT LYMPHOMA	2	0	0	0	5	0	0	0	7	0	0	0	7	0	0	0
	METASTASIS	0	3	0	0	0	0	1	0	0	1	0	0	0	0	0	0
	LYMPHADENITIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
PANCREAS	HEMORRHAGE	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	INFLAMMATION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	DEGENERATION	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAMMARY GLAND	+ADENOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKIN	DERMATITIS	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
SUBCUTANEOUS TISSUE	INFLAMMATION	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	+HEMANGIOMA	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	+HEMANGIOENDOTHELIOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
HEART	FIBROSIS	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
ARTERY	ARTERITIS	0	0	0	1	0	0	0	0	0	0	2	0	0	1	0	0
MUSCLE	RHEMANGIOSARCOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PITUITARY	CYST	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0
	+ADENOMA	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	PARAKER'S POUCH	0	3	0	0	0	2	0	0	0	4	0	0	0	1	0	0
ADRENAL	HYPERPLASIA	0	5	0	0	0	0	0	0	0	1	0	0	0	1	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED



TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0060

SEX : MALE

DOSE LEVEL (PPD)		0				20				60				180			
NO. OF EXAMINED ANIMALS		33				30				26				29			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
ADRENAL	+ADENOMA	4	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	+PHEOCHROMOCYTOMA	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
	CATARACT	0	24	0	0	0	22	2	0	0	23	0	0	0	23	2	0
EYE HARDERIAN GLAND	GRANULATION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	HYPERPLASIA	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0
	+ADENOMA	1	0	0	0	2	0	0	0	2	0	0	0	3	0	0	0
	METASTASIS	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
NASAL CAVITY	CONGESTION	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	EOSINOPHILIC CHANGE	0	16	5	0	0	21	2	0	0	19	0	0	0	16	1	0
	INFLAMMATION	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	METAPLASIA	0	10	10	0	0	5	13	0	0	7	9	0	0	3	11	0
	PROLIFERATION	0	0	2	0	0	3	0	0	0	1	0	0	0	0	0	0
	HYPERPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	TOOTH	0	0	2	0	0	1	11	0	0	0	5	0	0	0	6	0
BONE MARROW	+TUMOR/BENIGN	2	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
	METASTASIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
PERITONEUM	GRANULOCYTES	0	1	2	0	0	0	1	0	0	0	1	0	0	0	1	0
	GRANULATION	0	5	0	0	0	3	1	0	0	7	0	0	0	6	0	0

+ : BENIGN    B : BENIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0060

SEX : FEMALE

DOSE LEVEL (PPM)		0				20				60				180			
NO. OF EXAMINED ANIMALS																	
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
BRAIN	DEPOSIT OF CALCIUM	0	8	0	0	0	8	0	0	0	13	0	0	0	15	0	0
	HYALINE BODY	0	16	4	0	0	15	3	0	0	23	2	0	0	26	2	0
LUNG	CONGESTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0
	METASTASIS	0	2	3	0	0	0	0	0	0	0	4	0	0	3	1	1
	*ALVEOLAR/BRONCHIOLEAR ADENOMA	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	*ALVEOLAR/BRONCHIOLEAR CARCINOMA	1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0
	BRONCHOPNEUMONIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
THYROID	DEPOSIT OF PIGMENT	0	0	0	0	0	8	0	0	0	23	1	0	0	2	11	18
	DEPOSIT OF AMYLOID	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
	DEGENERATION	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
	ADENOMATOUS GOITER	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
PARATHYROID																	
	CYST	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
LIVER	ANGIECTASIS	0	0	1	0	0	2	1	0	0	0	1	1	0	0	1	1
	NECROSIS	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1
	DEPOSIT OF PIGMENT	0	0	0	0	0	0	0	0	0	3	0	0	0	24	0	0
	LYMPHOCYTIC INFILTRATION	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
	INFLAMMATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	GRANULATIONS	0	4	4	0	0	9	6	0	0	4	4	0	0	10	1	0
	CYST	0	0	0	0	0	1	0	0	0	2	0	0	0	1	0	0
	HYPERPLASIA	0	1	0	0	0	0	1	0	0	1	1	0	0	1	0	0
	*ADENOMA	4	0	0	0	5	0	0	0	4	0	0	0	8	0	0	0
	METASTASIS	0	1	4	1	0	2	0	0	0	4	2	0	0	3	3	1
	*HEPATOCELLULAR CARCINOMA	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
KIDNEY	HYALINE GLOBULE	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0
	DEPOSIT OF AMYLOID	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	DEPOSIT OF CALCIUM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	LYMPHOCYTIC INFILTRATION	0	2	0	0	0	5	1	0	0	2	0	0	0	3	0	0
	METASTASIS	0	2	1	1	0	0	0	0	0	3	0	0	0	1	0	2
	HYDRONEPHROSIS	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	TUBULAR NECROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	GLOMERULOSCLEROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
STOMACH	EDEMA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	ULCER	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0
	ATROPHY	0	8	0	0	0	14	4	0	0	19	7	0	0	27	1	0
	POSTINFLAMMATIC CHANGE	0	9	0	0	0	10	0	0	0	5	0	0	0	7	0	0
	HYPERKERATOSIS	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0
	HYPERPLASIA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
UTERUS	THROMBUS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	DILATATION	0	15	1	0	0	15	2	0	0	14	6	0	0	17	9	0
	*POLYP	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	*SARCOMA	1	0	0	0	1	0	0	0	0	0	0	0	5	0	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0060

SEX : FEMALE

DOSE LEVEL (PPF)		0				20				60				180			
NO. OF EXAMINED ANIMALS		21				20				26				31			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
UTERUS	METASTASIS	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
SPLEEN	FIBROSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	HEMATOPHRESIS	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0
	SMALLIGMANT LYMPHOMA	1	0	0	0	2	0	0	0	3	0	0	0	3	0	0	0
	METASTASIS	0	5	1	0	0	1	0	0	0	2	0	0	0	5	0	0
	FOLLICULAR HYPERPLASIA	0	2	0	0	0	4	0	0	0	2	0	0	0	3	0	0
LYMPH NODES	SMALLIGMANT LYMPHOMA	0	0	0	0	1	0	0	0	5	0	0	0	9	0	0	0
	METASTASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	MODERATE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	BRASIOCYTOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
PANCREATIC ISLET																	
	*ADENOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
PANCREAS	ATROPHY	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	METASTASIS	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	DEGENERATION	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAMMARY GLAND																	
	*RADENDOCARCINOMA	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
SUBCUTANEOUS TISSUE																	
	EDEMA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0
	BRASIOCYTOMA	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEART	FIBROSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	METASTASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
ARTERY	ARTERITIS	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
MUSCLE	METASTASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
TONGUE	METASTASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
PITUITARY	CYST	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	*ADENOMA	0	0	0	0	10	0	0	0	11	0	0	0	16	0	0	0
	RATHKE'S POUCH	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ADRENAL	THROMBUS	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	VACUOLIC CHANGE	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	DEPOSIT OF AMYLOID	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	HYPERPLASIA	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OVARY	THROMBUS	0	0	1	0	0	0	0	0	0	0	1	1	0	2	1	0
	ATROPHY	0	3	0	0	0	4	0	0	0	5	0	0	0	11	0	0
	CYST	0	0	0	0	0	1	0	0	0	3	0	0	0	7	0	0
	METASTASIS	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
	*CYSTADENOMA	3	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
EYE	ATROPHY RETINA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	CATARACT	0	12	0	0	0	19	0	0	0	23	3	0	0	21	10	0
HARDERIAN GLAND																	
	INFLAMMATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

+ : BENIGN    \* : MALIGNANT    T : TUMOR    1 : SLIGHT    2 : MODERATE    3 : MARKED

TABLE SUMMARY OF MICRO FINDINGS (SACRIFICED AT 104 WEEK)

STUDY NO. : 0050

SEX : FEMALE

DOSE LEVEL (PPP)		0				20				60				180			
NO. OF EXAMINED ANIMALS		21				20				26				31			
ORGAN	FINDINGS	T	1	2	3	T	1	2	3	T	1	2	3	T	1	2	3
HARDERIAN GLAND	GRANULATION	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	HYPERPLASIA	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
	*ADENOMA	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0
	RADIOMYOCARCINOMA	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	METASTASIS	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
NASAL CAVITY	EOSINOPHILIC CHANGE	0	11	0	0	0	13	0	0	0	16	0	0	0	16	0	0
	INFLAMMATION	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	METAPLASIA	0	2	2	0	0	7	0	0	0	4	1	0	0	9	1	0
	PROLIFERATION	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0
	HYPERPLASIA	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
TOOTH BONE MARROW	HYPOPLASIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	METASTASIS	0	2	0	0	0	0	0	0	0	1	1	0	0	1	1	0
	GRANULOPHILIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	GRANULATON	0	0	0	0	0	1	0	0	0	2	0	0	0	2	0	0
	*HEPATOGLIOMA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
PERITONEUM	RADIOMYOCARCINOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	HOASTOCYTOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	GRANULATON	0	0	0	0	0	1	0	0	0	2	0	0	0	2	0	0
	HOASTOCYTOMA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	METASTASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRIMAL GLAND		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

+ : BENIGN \* : MALIGNANT T : TUMOR 1 : SLIGHT 2 : MODERATE 3 : MARKED

付録表Ⅲ－４２

腫瘍性病変－死亡・瀕死動物・期間別－  
(マウス・がん原性試験)

付録表Ⅲ-42

## 腫瘍性病変-死亡・瀕死動物・期間別-

(マウス・癌原性試験)

TABLE NEOPLASTIC FINDINGS (DEAD OR MORIBUND) - TIME RELATED

STUDY NO. : 0060

SEX : MALE

ORGAN	TYPE OF TUMOR	WEEKS DOSE LEVEL NO. OF ANIMALS	0 → 26				27 → 52				53 → 72				73 → 104			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
			0	1	1	0	2	1	0	1	5	5	2	4	10	13	18	16
BRAIN	MEPENDINGOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
LUNG	+ALVEOLAR/BRONCHIOLEAR ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
	ALVEOLAR/BRONCHIOLEAR CARCINOMA		0	0	0	0	0	0	0	0	0	1	0	0	4	0	4	4
LIVER	+ADENOMA		0	0	0	0	0	0	0	0	0	0	0	1	2	1	3	5
	HEPATOCELLULAR CARCINOMA		0	0	0	0	0	0	0	0	1	2	0	2	3	0	1	3
	HEMANGIOSARCOMA		0	0	0	0	0	0	0	0	1	0	0	0	2	3	6	7
URETER	+POLYP		0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
STOMACH	ADENOCARCINOMA		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	LEIOMYOSARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
EPIDIDYHIS	+XANTHOMA		0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
SEMINAL VESICLE	LEIOMYOSARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
PROSTATE	EPHABDOMYOSARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
SPLEEN	ALIGNANT LYMPHOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
	HEMANGIOMA		0	0	0	0	0	0	0	0	0	0	0	0	2	0	4	1
LYMPH NODES	ALIGNANT LYMPHOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	2
PANCREATIC ISLET	+ADENOMA		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SKIN	+EPIDERMAL CYST		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
SUBCUTANEOUS TISSUE	ALIGNANT FIBROUS HISTIOCYTOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
PERIPHERAL NERVES	ALIGNANT SCHWANNOMA		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
PITUITARY	+ADENOMA		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
ADRENAL	+ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
HARDERIAN GLAND	+ADENOMA		0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
TOOTH	+TUMOR/BENIGN		0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
BONE MARROW	LEUKEMIA		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
PERITONEUM	HEMANGIOENDOTHELIOA		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	EPHABDOMYOSARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

A: 0 (PPM)

B: 20 (PPM)

C: 60 (PPM)

D: 180 (PPM)

+ : BENIGN

# : MALIGNANT

TABLE NEOPLASTIC FINDINGS (DEAD OR MORIBUND) - TIME RELATED

STUDY NO. : 0060

SEX : FEMALE

ORGAN	TYPE OF TUMOR	WEEKS DOSE LEVEL NO. OF ANIMALS	0 → 26				27 → 52				53 → 78				79 → 104			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
			0	0	0	0	1	1	1	0	4	7	2	3	24	22	21	16
LUNG	*ALVEOLAR/BRONCHIOAL CARCINOMA		0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0
THYROID	+C-CELL ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
LIVER	+ADENOMA		0	0	0	0	0	0	1	0	0	0	0	0	1	1	2	0
	*SARCOMA		0	0	0	0	0	0	1	0	1	0	0	0	1	0	3	0
	*HEPATOCELLULAR CARCINOMA		0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
	*HEMANGIOSARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
URETER	+POLYP		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
URINARY BLADDER	+PAPILLOMA		0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
UTERUS	+POLYP		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	*SARCOMA		0	0	0	0	0	0	0	0	2	2	2	2	8	4	5	4
	+HEMANGIOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
SPLEEN	*MALIGNANT LYMPHOMA		0	0	0	0	0	0	0	0	0	2	0	0	1	2	0	0
	+HEMANGIOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	*ANGIOSARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
LYMPH NODES	*MALIGNANT LYMPHOMA		0	0	0	0	0	0	0	0	1	1	0	0	11	9	7	10
MAMMARY GLAND	*ADENOCARCINOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
MUSCLE	+HEMANGIOENDOTHELIOMA		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
PERIPHERAL NERVES	*MALIGNANT SCHWANNOMA		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
PITUITARY	+ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	2	7	4	4
	*ADENOCARCINOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
ADRENAL	+ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
OVARY	+CYSTADENOMA		0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
PAROTID GLAND	+ADENOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
BONE	*OSTEOGENIC SARCOMA		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

A: 0 (PPM)

B: 20 (PPM)

C: 60 (PPM)

D: 180 (PPM)

+ : BENIGN

\* : MALIGNANT

付録表Ⅲ－４３

腫瘍性病変－定期解剖動物・期間別－  
(マウス・がん原性試験)



付録表Ⅲ-43

## 腫瘍性病変-定期解剖動物・期間別-

(マウス・癌原性試験)

TABLE NEOPLASTIC FINDINGS (SACRIFICED) - TIME RELATED

STUDY NO. : 0060

SEX : MALE

ORGAN-----	TYPE OF TUMOR----	WEEKS DOSE LEVEL NO. OF ANIMALS	104			
			A	B	C	D
			33	30	26	29
LUNG	+ALVEOLAR/BRONCHIOLAR ADENOMA		3	2	1	1
	+ALVEOLAR/BRONCHIOLAR CARCINOMA		6	2	5	4
LIVER	+ADENOMA		12	12	8	12
	+HEPATOCELLULAR CARCINOMA		10	7	8	7
	+HEMANGIOSARCOMA		0	0	1	0
	+HEPATOBLASTOMA		0	0	0	1
STOMACH	+KERATOCANTHOMA		1	1	0	0
LARGE INTESTINE						
	+HEMANGIOMA		0	0	1	0
	+HANGIOSARCOMA		0	0	1	0
TESTIS	+INTERSTITIAL CELL TUMOR		0	0	1	0
EPIDIDYMIS	+XANTHOMA		1	0	0	0
PROSTATE	+ADENOMA		0	0	0	1
SPLEEN	+MALIGNANT LYMPHOMA		4	2	1	0
	+HEMANGIOMA		3	1	2	2
LYMPH NODES						
	+MALIGNANT LYMPHOMA		2	5	7	7
MAMMARY GLAND						
	+ADENOMA		1	0	0	0
SUBCUTANEOUS TISSUE						
	+HEMANGIOMA		1	1	0	1
	+HEMANGIOENDOTHELIOA		0	1	0	0
MUSCLE	+HEMANGIOSARCOMA		1	0	0	0
PITUITARY	+ADENOMA		5	1	0	0
ADRENAL	+ADENOMA		4	4	0	1
	+PHEOCHROMOCYTOMA		0	1	0	2
HARDERIAN GLAND						
	+ADENOMA		1	2	2	3
TOOTH	+TUMOR/BENIGN		2	1	0	2
A: 0 (PPM)			B: 20 (PPM)			
+ : BENIGN			C: 60 (PPM)			
			D: 180 (PPM)			
			* : MALIGNANT			

TABLE NEOPLASTIC FINDINGS (SACRIFICED) - TIME RELATED

STUDY NO. : 0060

SEX : FEMALE

ORGAN	TYPE OF TUMOR	WEEKS DOSE LEVEL NO. OF ANIMALS	104			
			A	B	C	D
			21	20	26	31
LUNG	+ALVEOLAR/BRONCHIOLAR ADENOMA		2	0	1	1
	+ALVEOLAR/BRONCHIOLAR CARCINOMA		1	2	1	1
LIVER	+ADENOMA		4	5	4	8
	+HEPATOCELLULAR CARCINOMA		0	0	2	1
UTERUS	+POLYP		2	0	2	0
	+SARCOMA		1	1	0	5
SPLEEN	+ALIGNANT LYMPHOMA		1	2	3	3
LYMPH NODES	+ALIGNANT LYMPHOMA		8	1	5	9
	+HISTOCYTOMA		0	0	0	1
PANCREATIC ISLET	+ADENOMA		0	0	0	1
MAMMARY GLAND	+ADENOCARCINOMA		0	1	0	2
SUBCUTANEOUS TISSUE	+HISTOCYTOMA		1	0	0	0
PITUITARY	+ADENOMA		6	10	11	16
OVARY	+CYSTADENOMA		3	1	1	0
HARDERIAN GLAND	+ADENOMA		0	0	1	3
	+ADENOCARCINOMA		0	0	1	1
PERITONEUM	+HEMANGIOMA		0	1	0	0
	+ANGIOSARCOMA		0	0	0	1
	+HISTOCYTOMA		0	0	0	1
A: 0 (PPM)			B: 20 (PPM)			
+ : BENIGN			C: 60 (PPM)			
			D: 180 (PPM)			
			- : MALIGNANT			

付録表Ⅲ－４４

腫瘍性病変・発生時期  
(マウス・がん原性試験)

付録表Ⅲ-44

腫瘍性病変・発生時期  
(マウス・癌原性試験)

TABLE TIME OF TUMOR OCCURRENCE

STUDY NO. : 0060

SEX : MALE

ORGAN	TYPE OF TUMORS	DOSE LEVEL (PPM)			
		0 NO. (%) WEEK (MIN.-MAX.)	20 NO. (%) WEEK (MIN.-MAX.)	60 NO. (%) WEEK (MIN.-MAX.)	180 NO. (%) WEEK (MIN.-MAX.)
BRAIN	*EPENDYMOA	1 (2) 93 (93-93)	0	0	0
LUNG	+ALVEOLAR/BRONCHIOLAR ADENOMA	4 (4) 103 (102-104)	3 (6) 99 (91-104)	1 (2) 104 (104-104)	2 (4) 102 (100-104)
	*ALVEOLAR/BRONCHIOLAR CARCINOMA	10 (20) 99 (86-104)	3 (6) 88 (58-104)	9 (19) 99 (83-104)	8 (16) 98 (86-104)
LIVER	+ADENOMA	14 (28) 102 (90-104)	13 (26) 102 (82-104)	11 (23) 101 (79-104)	18 (36) 98 (73-104)
	*SARCOMA	4 (4) 88 (76-96)	2 (4) 70 (68-72)	1 (2) 88 (88-88)	5 (10) 80 (56-101)
	*HEPATOCELLULAR CARCINOMA	13 (26) 99 (71-104)	10 (20) 102 (95-104)	14 (30) 98 (79-104)	14 (28) 99 (82-104)
	*HEMANGIOSARCOMA	0	1 (2) 88 (88-88)	1 (2) 104 (104-104)	0
	*HEPATOMASTOMA	0	0	0	1 (2) 104 (104-104)
URETER	+POLYP	0	0	2 (4) 56 (9-104)	0
STOMACH	*ADENOCARCINOMA	0	1 (2) 50 (50-50)	0	0
	+KERATOACANTHOMA	1 (2) 104 (104-104)	1 (2) 104 (104-104)	0	0
	*LEIOMYOSARCOMA	0	0	1 (2) 89 (89-89)	0
LARGE INTESTINE	+HEMANGIOMA	0	0	1 (2) 104 (104-104)	0
	*HANGIOSARCOMA	0	0	1 (2) 104 (104-104)	0
TESTIS	+INTERSTITIAL CELL TUMOR	0	0	1 (2) 104 (104-104)	0
EPIDIDYMS	+XANTHOMA	1 (2) 104 (104-104)	1 (2) 58 (58-58)	1 (2) 88 (88-88)	0
SEMINAL VESICLE	*LEIOMYOSARCOMA	0	0	1 (2) 89 (89-89)	0
PROSTATE	+ADENOMA	0	0	0	1 (2) 104 (104-104)
	*RHABDOMYOSARCOMA	0	0	1 (2) 90 (90-90)	0
SPLEEN	*ALIGNANT LYMPHOMA	5 (10) 103 (102-104)	2 (4) 104 (104-104)	1 (2) 104 (104-104)	2 (4) 99 (98-101)
+ : BENIGN * : MALIGNANT					

TABLE TIME OF TUMOR OCCURRENCE

STUDY NO. : 0060

SEX : MALE

ORGAN	TYPE OF TUMORS	DOSE LEVEL (PPM)			
		0 NO. (%) WEEK (MIN.-MAX.)	20 NO. (%) WEEK (MIN.-MAX.)	60 NO. (%) WEEK (MIN.-MAX.)	180 NO. (%) WEEK (MIN.-MAX.)
SPLEEN	+HEMANGIOMA	5 (10) 98 ( 83-104)	1 ( 2) 104 (104-104)	6 (13) 98 ( 79-104)	3 ( 6) 102 (100-104)
LYMPH NODES	BEALIGNANT LYMPHOMA	5 ( 6) 103 (102-104)	9 (18) 98 ( 80-104)	13 (28) 98 ( 79-104)	9 (18) 103 (101-104)
PANCREATIC ISLET	+ADENOMA	0	1 ( 2) 62 ( 62- 62)	0	0
MAMMARY GLAND	+ADENOMA	1 ( 2) 104 (104-104)	0	0	0
SKIN	+EPIDERMAL CYST	0	1 ( 2) 91 ( 91- 91)	0	0
SUBCUTANEOUS TISSUE	+HEMANGIOMA	1 ( 2) 104 (104-104)	1 ( 2) 104 (104-104)	0	1 ( 2) 104 (104-104)
	+HEMANGIOENDOTHELIONA	0	1 ( 2) 104 (104-104)	0	0
	BEALIGNANT FIBROUS HISTIOCYTOMA	1 ( 2) 96 ( 96- 96)	1 ( 2) 82 ( 82- 82)	0	0
MUSCLE	BEHEMANGIOSARCOMA	1 ( 2) 104 (104-104)	0	0	0
PERIPHERAL NERVES	BEALIGNANT SCHWANNOMA	0	0	0	1 ( 2) 56 ( 56- 56)
PITUITARY	+ADENOMA	6 (12) 97 ( 67-104)	1 ( 2) 104 (104-104)	0	0
ADRENAL	+ADENOMA	4 ( 8) 104 (104-104)	4 ( 8) 104 (104-104)	0	2 ( 4) 101 ( 98-104)
	+PHEOCHROMOCYTOMA	0	1 ( 2) 104 (104-104)	0	2 ( 4) 104 (104-104)
THYROID GLAND	+ADENOMA	1 ( 2) 104 (104-104)	3 ( 6) 90 ( 62-104)	3 ( 6) 101 ( 97-104)	4 ( 8) 100 ( 90-104)
TOOTH	+TUMOR/BENIGN	2 ( 4) 104 (104-104)	2 ( 4) 94 ( 84-104)	1 ( 2) 72 ( 72- 72)	2 ( 4) 104 (104-104)
BONE MARROW	BELEUKEMIA	0	0	0	1 ( 2) 72 ( 72- 72)
PERITONEUM	+HEMANGIOENDOTHELIONA	0	1 ( 2) 91 ( 91- 91)	0	0
	BEHARRADYOSARCOMA	0	1 ( 2) 99 ( 90- 99)	0	0

+ : BENIGN \* : MALIGNANT

TABLE TIME OF TUMOR OCCURRENCE

STUDY NO. : 0060

SEX : FFHAL

ORGAN	TYPE OF TUMORS	DOSE LEVEL (PPM)			
		0 NO. (%) WEEK (MIN.-MAX.)	20 NO. (%) WEEK (MIN.-MAX.)	60 NO. (%) WEEK (MIN.-MAX.)	180 NO. (%) WEEK (MIN.-MAX.)
LUNG	+ALVEOLAR/BRONCHIOLAR ADENOMA	2 (4) 104 (104-104)	0	1 (2) 104 (104-104)	1 (2) 104 (104-104)
	#ALVEOLAR/BRONCHIOLAR CARCINOMA	3 (6) 92 (84-104)	2 (4) 104 (104-104)	2 (4) 102 (101-104)	1 (2) 104 (104-104)
THYROID	+C-CELL ADENOMA	0	0	1 (2) 104 (104-104)	0
LIVER	+ADENOMA	5 (10) 91 (91-104)	6 (12) 104 (104-104)	7 (14) 91 (43-104)	8 (16) 104 (104-104)
	#SARCOMA	2 (4) 81 (72-90)	0	4 (8) 84 (43-104)	0
	#HEPATOCELLULAR CARCINOMA	1 (2) 90 (90-90)	1 (2) 76 (76-76)	2 (4) 104 (104-104)	1 (2) 104 (104-104)
	#HEMANGIOSARCOMA	0	0	0	1 (2) 91 (91-91)
URETER	+POLYP	0	0	1 (2) 103 (103-103)	0
URINARY BLADDER					
	+PAPILLOMA	1 (2) 77 (77-77)	1 (2) 72 (72-72)	0	0
UTERUS	+POLYP	2 (4) 104 (104-104)	1 (2) 104 (104-104)	2 (4) 104 (104-104)	0
	#SARCOMA	11 (22) 89 (65-104)	7 (14) 84 (55-104)	7 (14) 84 (54-104)	11 (22) 93 (62-104)
	+HEMANGIOMA	0	0	1 (2) 95 (95-95)	0
SPLEEN	#MALIGNANT LYMPHOMA	2 (4) 104 (104-104)	6 (12) 86 (70-104)	3 (6) 104 (104-104)	3 (6) 104 (104-104)
	+HEMANGIOMA	1 (2) 103 (103-104)	0	0	1 (2) 91 (91-91)
	#ANGIOSARCOMA	0	0	1 (2) 90 (90-90)	0
LYMPH NODES	#MALIGNANT LYMPHOMA	20 (40) 99 (77-104)	11 (22) 95 (76-104)	12 (24) 95 (85-104)	19 (38) 99 (91-104)
	#ASTROCYTOMA	0	0	0	1 (2) 104 (104-104)
PANCREATIC ISLET					
	+ADENOMA	0	0	0	1 (2) 104 (104-104)
MAMMARY GLAND	#ADENOCARCINOMA	0	1 (2) 104 (104-104)	1 (2) 91 (91-91)	2 (4) 104 (104-104)

+ : BENIGN # : MALIGNANT

TABLE TIME OF TUMOR OCCURRENCE

STUDY NO. : 0060

SEX : FEMALE

ORGAN	TYPE OF TUMORS	DOSE LEVEL (PPM)			
		0 NO. (%) WEEK (MIN.-MAX.)	20 NO. (%) WEEK (MIN.-MAX.)	60 NO. (%) WEEK (MIN.-MAX.)	180 NO. (%) WEEK (MIN.-MAX.)
SUBCUTANEOUS TISSUE	HEMANGIOCYTOMA	1 (2) 104 (104-104)	0	0	0
MUSCLE	HEMANGIOENDOTHELIOMA	1 (2) 87 (87-87)	0	0	0
PERIPHERAL NERVES	MALIGNANT SCHWANNOMA	0	0	0	1 (2) 73 (73-73)
PITUITARY	+ADENOMA	8 (16) 103 (98-104)	17 (34) 89 (80-104)	15 (30) 101 (87-104)	20 (40) 102 (92-104)
	ADENOCARCINOMA	0	1 (2) 95 (95-95)	0	0
ADRENAL	+ADENOMA	0	1 (2) 90 (90-90)	0	0
OVARY	+CYSTADENOMA	3 (6) 104 (104-104)	2 (4) 89 (75-104)	2 (4) 97 (90-104)	1 (2) 104 (104-104)
HARDERIAN GLAND	+ADENOMA	0	0	1 (2) 104 (104-104)	4 (8) 102 (97-104)
	ADENOCARCINOMA	0	0	1 (2) 104 (104-104)	1 (2) 104 (104-104)
BONE	OSTEOGENIC SARCOMA	0	0	0	1 (2) 81 (81-81)
PERITONEUM	HEMANGIOMA	0	1 (2) 104 (104-104)	0	0
	HANGIOSARCOMA	0	0	0	1 (2) 104 (104-104)
	HEMANGIOCYTOMA	0	0	0	1 (2) 104 (104-104)

+ : BENIGN    \* : MALIGNANT