

Toxicology and carcinogenesis studies of tetrachloroethylene in F344/DuCrj rats and Crj:BDF1 mice (two-year inhalation studies)

Study No.0104; F344/DuCrj rats

Study No.0105; Crj:BDF1 mice

Appendix Z10-1 : Histological Findings (two-year studies: individual), rat: male

Appendix Z10-2 : Histological Findings (two-year studies: individual), rat: female

Appendix Z10-3 : Histological Findings (two-year studies: individual), mouse: male

Appendix Z10-4 : Histological Findings (two-year studies: individual), mouse: male



APPENDIX Z 10-1

HISTOLOGICAL FINDINGS (TWO-YEAR STUDIES: INDIVIDUAL)

RAT: MALE



STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-105W)

PAGE : 1

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1001	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavity	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 2

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1001	SCHEDULED	105-1	pituitary	NON-REMARKABLE
			thyroid	follicular hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
1002	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1002	SCHEDULED	105-1	lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//basophilic cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1002	SCHEDULED	105-1	testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1003	SCHEDULED	105-1	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>// eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	granulation,<2>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1003	SCHEDULED	105-1	lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	granulation,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	spongiosis hepatitis,<1>//clear cell focus,<1>//bile duct hyperplasia,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 6

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1003	SCHEDULED	105-1	semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1004	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>/ eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	bronchiolar-alveolar cell hyperplasia,<1>//osseous metaplasia,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 7

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1004	SCHEDULED	105-1	heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//leukemic cell infiltration,<1>//hyperplasia,<2>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 8

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1004	SCHEDULED	105-1	brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1005	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	ectasia of sinus,<1>
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	arteritis,<1>
			artery/aort	arteritis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-105W)

PAGE : 9

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1005	SCHEDULED	105-1	esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//basophilic cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<1>//focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1005	SCHEDULED	105-1	eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1006	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<4>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1006	SCHEDULED	105-1	liver	bile duct hyperplasia,<2>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>//pheochromocytoma,'0'
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1007	DEAD	88-5	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hepatocellular adenoma,'1'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1007	DEAD	88-5	pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	fibroadenoma,'4'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1008	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 14

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1008	SCHEDULED	105-1	larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tonsue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//clear cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'0'

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1008	SCHEDULED	105-1	parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1009	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1009	SCHEDULED	105-1	Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	fibrosis,<1>,focal
			artery/aort	arteritis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//basophilic cell focus,<1>//hyperplasia,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1009	SCHEDULED	105-1	epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1010	SCHEDULED	105-1	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			Lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
thymus	NON-REMARKABLE			
spleen	mononuclear cell leukemia,'0'			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1010	SCHEDULED	105-1	heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semn ves	NON-REMARKABLE
			prostate	granulation,<1>
			mammary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1010	SCHEDULED	105-i	brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1011	DEAD	83-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<2>,diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1011	DEAD	83-4	stomach	erosion:glandular stomach,<1>//congestion,<1>//ulcer:forestomach,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	NON-REMARKABLE
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	glioma,'3'
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1011	DEAD	83-4	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:brain
1012	DEAD	90-3	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<2>,diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
stomach	NON-REMARKABLE			
small intes	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1012	DEAD	90-3	large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma:malignant,'4'
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1012	DEAD	90-3	bone	NON-REMARKABLE
			Cause of Death	tumor death:adrenal gland
1013	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 24

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1013	SCHEDULED	105-4	pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<3>//degeneration:cornea,<1>
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			1014	HORIBUND

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

PAGE : 25

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1014	MORIBUND	94-6	nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<2>//extramedullary hematopoiesis,<3>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<1>//ulcer:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,' 1'

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1014	HORIBUND	94-6	thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	leiomyosarcoma,'4'
			bone	NON-REMARKABLE
		Cause of Death	tumor death:muscle	
1015	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 27

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1015	SCHEDULED	105-4	trachea	NON-REMARKABLE
			Lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//granulation,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1015	SCHEDULED	105-4	adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1016	NORIBUND	104-5	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>//thrombus,<1>
			Larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	hemorrhage,<2>,focal
			bone marrow	NON-REMARKABLE
			Lymph node	leukemic cell infiltration,<1>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1016	HORIBUND	104-5	thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:glandular stomach,<1>//hyperplasia:forestomach,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 30

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1016	MORTIBUND	104-5	prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	ostitis fibrosa,<1>
		Cause of Death	tumor death:Leukemia	
1017	DEAD	92-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
spleen	extramedullary hematopoiesis,<1>			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1017	DEAD	92-1	heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma, '2'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 32

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1017	DEAD	92-1	brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			pleura	mesothelioma, 4'
			Cause of Death	tumor death:pleura
1018	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
heart	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 33

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1018	SCHEDULED	105-4	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>//hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 34

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1018	SCHEDULED	105-4	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1019	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>//eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	lymphadenitis,<1>
			thymus	osseous metaplasia,<1>//thymoma:benign,' 0'
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1019	SCHEDULED	105-4	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	atrophy,<2>
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<2>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	granulation,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1019	SCHEDULED	105-4	muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1020	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
Liver	bile duct hyperplasia,<1>			
pancreas	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105#)

PAGE : 37

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1020	SCHEDULED	105-4	kidney	chronic nephropathy,<4>//renal dysgenesis,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	granulation,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
1021	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1021	SCHEDULED	105-5	Larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia, '0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia, <1> // acidophilic cell focus, <1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy, <4> // leukemic cell infiltration, <1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE

( ): Comment      <1>: Slight      <2>: Moderate      <3>: Marked      <4>: Severe      ' ': Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 39

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1021	SCHEDULED	105-5	parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>//pheochromocytoma,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1022	HORBUND	104-7	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 40

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1022	HORIBUND	104-7	Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'3'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<4>//hyperplasia:forestomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'2'
			thyroid	C-cell hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			panc islet	adenocarcinoma,'1'
			adrenal	focal fatty change:cortex,<1>
			testis	interstitial cell tumor,'1'

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings	
1022	HORIBUND	104-7	epididymis	NON-REMARKABLE	
			semin ves	NON-REMARKABLE	
			prostate	hyperplasia,<1>	
			mammary gl	adenoma,'1'	
			brain	NON-REMARKABLE	
			spinal cord	NON-REMARKABLE	
			periph nerv	NON-REMARKABLE	
			eye	retinal atrophy,<1>	
			harder gl	NON-REMARKABLE	
			muscle	NON-REMARKABLE	
			bone	NON-REMARKABLE	
				Cause of Death	tumor death:leukemia
			1023	SCHEDULED	105-5
nasal cavit	NON-REMARKABLE				
larynx	NON-REMARKABLE				
trachea	NON-REMARKABLE				
lung	NON-REMARKABLE				
bone marrow	NON-REMARKABLE				
lymph node	NON-REMARKABLE				

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

PAGE : 42

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1023	SCHEDULED	105-5	thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatitis,<1>//basophilic cell focus,<1>//clear cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 43

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1023	SCHEDULED	105-5	prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1024	SCHEDULED	105-5	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			artery/aort	arteritis,<1>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 44

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1024	SCHEDULED	105-5	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//mixed cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			panc islet	adenoma,'0'
			adrenal	pheochromocytoma,'0'
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 45

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1024	SCHEDULED	105-5	brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1025	HORIBUND	94-6	skin/spp	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe :Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 46

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1025	HORIBUND	94-6	stomach	NON-REMARKABLE
			small intes	leiomyosarcoma, '4'
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia, <1>
			pancreas	metastasis:small intestine tumor, <2>
			kidney	chronic nephropathy, <3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy, <1>//interstitial cell tumor, '1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1025	HORIBUND	94-6	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:leukemia
1026	DEAD	97-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	mineralization,<1>,with,myocardial deseneration
			artery/aort	mineralization:artery,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	mineralization,<3>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      :Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

PAGE : 48

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1026	DEAD	97-6	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 49

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1026	DEAD	97-6	muscle	NON-REMARKABLE
			bone	ostitis fibrosa,<1>
			Cause of Death	renal lesion
1027	DEAD	104-1	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<1>,diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
stomach	ulcer:forestomach,<2>//hyperplasia:forestomach,<1>			
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 50

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1027	DEAD	104-1	liver	bile duct hyperplasia, <2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy, <3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma, '4'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma, '1'
			testis	atrophy, <1> // interstitial cell tumor, '1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	granulation, <1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

( ): Comment      <1>: Slight      <2>: Moderate      <3>: Marked      <4>: Severe      ' ': Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105#)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1027	DEAD	104-1		
			Cause of Death	tumor death:pituitary gland
1028	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 52

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1028	SCHEDULED	105-5	pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
muscle	NON-REMARKABLE			
bone	NON-REMARKABLE			
1029	SCHEDULED	105-5	skin/app	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1029	SCHEDULED	105-5	nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//cholangiocellular adenoma,'0'//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1029	SCHEDULED	105-5	thyroid	C-cell hyperplasia,<1>//C-cell carcinoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
1030	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//eosinophilic change:olfactory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			Lung	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1030	SCHEDULED	105-5	bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1030	SCHEDULED	105-5	epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1031	DEAD	84-4	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<2>,diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
spleen	NON-REMARKABLE			

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1031	DEAD	84-4	heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hepatocellular adenoma,'1'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'4'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<1>
			mammary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1031	DEAD	84-4	brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:pituitary gland
1032	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			Larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>
tongue	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1032	SCHEDULED	105-6	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 60

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1032	SCHEDULED	105-6	periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1033	SCHEDULED	105-6	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>//fibrosis,<1>,focal
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
esophagus	NON-REMARKABLE			
stomach	NON-REMARKABLE			
small intes	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1033	SCHEDULED	105-6	Large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1033	SCHEDULED	105-6	bone	NON-REMARKABLE
1034	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//mixed cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 63

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1034	SCHEDULED	105-6	urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>///interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			prep/cli gl	adenoma,'0'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
muscle	NON-REMARKABLE			
bone	NON-REMARKABLE			
1035	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 64

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1035	SCHEDULED	105-6	larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>//Rathke pouch,<1>
			thyroid	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1035	SCHEDULED	105-6	parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1036	DEAD	86-2	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1036	DEAD	86-2	Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<2>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'4'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

PAGE : 67

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1036	DEAD	86-2	semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:pituitary gland
1037	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium//eosinophilic change:respiratory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	Lymphadenitis,<1>
			thymus	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 68

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1037	SCHEDULED	105-6	spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//mixed cell focus,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>//pheochromocytoma,' 0'
			testis	interstitial cell tumor,' 0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 69

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1037	SCHEDULED	105-6	mammary gl	fibroadenoma,'0'
			brain	hyaline body,<1>//glioma,'0'
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1038	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>//eosinophilic change:olfactory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//fibrosis,<1>,focal//mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 70

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1038	SCHEDULED	105-6	esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<2>//hepatocellular adenoma,'0'//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'0'
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1038	SCHEDULED	105-6	eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1039	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1039	SCHEDULED	105-6	Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 73

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1040	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1040	SCHEDULED	105-6	pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			panc islet	adenoma,' 0'
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,' 0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
1041	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 75

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1041	SCHEDULED	105-7	trachea	NON-REMARKABLE
			Lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>//fibrosis,<2>,focal
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<2>
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 76

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1041	SCHEDULED	105-7	adrenal	focal fatty change:cortex,<2>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1042	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 77

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1042	SCHEDULED	105-7	thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//choleangiocellular carcinoma,'0',mucinous
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1042	SCHEDULED	105-7	prostate	inflammation,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1043	SCHEDULED	105-7	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>// eosinophilic change:olfactory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-105W)

PAGE : 79

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1043	SCHEDULED	105-7	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>
			pancreas	atrophy,<2>
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1043	SCHEDULED	105-7	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1044	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 81

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1044	SCHEDULED	105-7	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'0'
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-1050)

PAGE : 82

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1044	SCHEDULED	105-7	muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1045	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 83

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1045	SCHEDULED	105-7	kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'0'
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			Zymbal gl	adenoma,'0'
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			1046	SCHEDULED

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 84

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1046	SCHEDULED	105-7	nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	hemorrhage,<2>,focal
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//granulation,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//leukemic cell infiltration,<1>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

PAGE : 85

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1046	SCHEDULED	105-7	thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
1047	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1047	SCHEDULED	105-7	bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>//mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatitis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105#)

PAGE : 87

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1047	SCHEDULED	105-7	epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1048	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
spleen	extramedullary hematopoiesis,<1>			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

- HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ_____	Findings_____
1048	SCHEDULED	105-7	heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//mixed cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//renal cell carcinoma,'0'
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			panc islet	adenoma,'0'
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 89

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1048	SCHEDULED	105-7	mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1049	SCHEDULED	105-7	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	reticulosis,<4>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-105W)

PAGE : 90

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1049	SCHEDULED	105-7	esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//herniation,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	cyst,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 91

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1049	SCHEDULED	105-7	eye	NON-REMARKABLE
			liver gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1050	HORIBUND	92-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium//eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	hyperplasia:forestomach,<1>
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

PAGE : 92

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1050	KORIBUND	92-7	Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,' 3'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	gliosis,<2>
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : Control

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-105W)

PAGE : 93

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
---------------	-------------------	------------------------------	-------	----------

1050	HORIBUND	92-7		
------	----------	------	--	--

Cause of Death tumor death:pituitary gland

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

(IPT050)

BAIS2

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 94

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1101	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	lymphadenitis,<1>
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	inflammatory cell nest,<2>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 95

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1101	SCHEDULED	105-1	pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
muscle	NON-REMARKABLE			
1102	SCHEDULED	105-1	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//eosinophilic change:olfactory epithelium,<2>/ eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 96

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1102	SCHEDULED	105-1	trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//fatty change,<1>,portal region
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>
			ur in bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 97

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1102	SCHEDULED	105-1	adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1103	DEAD	89-5	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<4>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			Lymph node	leukemic cell infiltration,<2>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 98

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1103	DEAD	89-5	thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'1'
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1103	DEAD	89-5	prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	osseous metaplasia,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1104	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>//eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
spleen	mononuclear cell leukemia,'0'			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-105W)

PAGE : 100

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1104	SCHEDULED	105-1	heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//mixed cell focus,<1>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,' 0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,' 0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1104	SCHEDULED	105-1	prep/cli gl	adenoma,' 0'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1105	HORIBUND	102-5	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	atrophy,<2>,diffuse
			lymph node	leukemic cell infiltration,<1>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,' 4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 102

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1105	HORIBUND	102-5	esophagus	NON-REMARKABLE
			stomach	ulcer:glandular stomach,<2>//hyperplasia:forestomach,<1>
			small intes	ulcer,<1>
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//renal cell carcinoma,'1'
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'1'
			thyroid	follicular adenocarcinoma,'1'
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'1'
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1105	NORIBUND	102-5	eye	retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death: leukemia
1106	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//eosinophilic change:respiratory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

PAGE : 104

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1106	SCHEDULED	105-1	stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//mixed cell focus,<1>//granulation,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1106	SCHEDULED	105-1	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1107	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	fibroma, '0'
			nasal cavit	respiratory metaplasia, <1>, olfactory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis, <1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
esophagus	NON-REMARKABLE			
stomach	NON-REMARKABLE			
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

( ): Comment      <1>: Slight      <2>: Moderate      <3>: Marked      <4>: Severe      ' ': Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1107	SCHEDULED	105-1	Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,' 0'
			parathyroid	NON-REMARKABLE
			panc islet	adenoma,' 0'
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,' 0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 107

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1107	SCHEDULED	105-1	bone	NON-REMARKABLE
1108	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//vacuolated cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 108

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1108	SCHEDULED	105-1	urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
muscle	NON-REMARKABLE			
bone	NON-REMARKABLE			
1109	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<2>
			larynx	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 109

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1109	SCHEDULED	105-1	trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 110

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1109	SCHEDULED	105-1	adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1110	DEAD	101-4	skin/app	NON-REMARKABLE
			subcutis	fibroma,'4'
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 111

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1110	DEAD	101-4	Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<3>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	vacuolic change:peripheral,<3>
			pancreas	NON-REMARKABLE
			kidney	NON-REMARKABLE
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1110	DEAD	101-4	semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph neru	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:subcutis
1111	DEAD	65-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			Lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 113

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1111	DEAD	65-4	spleen	extramedullary hematopoiesis,<2>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	NON-REMARKABLE
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 114

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1111	DEAD	65-4	mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	retinal atrophy,<3>
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			mediastinum	schwannoma:malignant,'4'
			Cause of Death	tumor death:mediastinum
1112	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 115

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1112	SCHEDULED	105-4	heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//herniation,<1>
			pancreas	atrophy,<2>
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1112	SCHEDULED	105-4	prep/cli gl	adenoma,'0'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1113	SCHEDULED	105-4	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>//eosinophilic change:olfactory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 117

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1113	SCHEDULED	105-4	esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
spinal cord	NON-REMARKABLE			
periph nerv	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1113	SCHEDULED	105-4	eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1114	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>//eosinophilic change:olfactory epithelium,<3>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:glandular stomach,<1>
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 119

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1114	SCHEDULED	105-4	liver	bile duct hyperplasia,<1>//mixed cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 120

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1115	DEAD	91-6	skin/app	keratoacanthoma,'1'
			nasal cavit	eosinophilic change:respiratory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<1>,diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 121

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1115	DEAD	91-6	pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	osteosarcoma,'4'
	Cause of Death	tumor death:bone		
1116	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<4>,respiratory epithelium

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1116	SCHEDULED	105-4	larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//herniation,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	follicular adenocarcinoma,'0'

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 123

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1116	SCHEDULED	105-4	parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1117	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 124

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1117	SCHEDULED	105-4	Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//clear cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 125

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1117	SCHEDULED	105-4	semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1118	HORBUND	102-1	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>//thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<2>
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//mononuclear cell leukemia,'4'
heart	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1118	MORIBUND	102-1	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<2>//ulcer:glandular stomach,<2>//hyperplasia:forestomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	follicular hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	fibroadenoma,'1'
			brain	osseous metaplasia,<1>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 127

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1118	MORBUND	102-1	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract.<1>//retinal atrophy,<3>
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:leukemia
1119	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin.<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1119	SCHEDULED	105-4	esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//basophilic cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 129

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1119	SCHEDULED	105-4	eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1120	MORIBUND	104-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1120	MORIBUND	104-7	Liver	bile duct hyperplasia,<1>//basophilic cell focus,<1>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>//hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	granulation,<1>
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 131

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1120	MORIBUND	104-7		
			Cause of Death	tumor death:leukemia
1121	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>// eosinophilic change:olfactory epithelium,<3>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1121	SCHEDULED	105-5	Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			panc islet	adenoma,'0'
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1121	SCHEDULED	105-5	bone	NON-REMARKABLE
1122	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 134

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1122	SCHEDULED	105-5	urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
1123	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//eosinophilic change:respiratory epithelium,<2>// eosinophilic change:olfactory epithelium,<3>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 135

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1123	SCHEDULED	105-5	larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,' 0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	papilloma,' 0'
			pituitary	adenoma,' 0'
			thyroid	C-cell hyperplasia,<1>//ultimibranchial body remanet,<1>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1123	SCHEDULED	105-5	parathyroid	NON-REMARKABLE
			adrenal	cortical adenoma,'0'
			testis	atrophy,<1>///interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1124	DEAD	81-2	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NOT-EXAMINE
			trachea	NOT-EXAMINE
			lung	Leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 137

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1124	DEAD	81-2	Lymph node	leukemic cell infiltration,<2>
			thymus	NOT-EXAMINE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NOT-EXAMINE
			salivary gl	NON-REMARKABLE
			esophagus	NOT-EXAMINE
			stomach	erosion:glandular stomach,<1>//leukemic cell infiltration,<3>
			small intes	leukemic cell infiltration,<1>
			large intes	leukemic cell infiltration,<1>
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>
			pancreas	leukemic cell infiltration,<2>
			kidney	chronic nephropathy,<1>//leukemic cell infiltration,<1>
			urin bladd	leukemic cell infiltration,<1>
			pituitary	NON-REMARKABLE
			thyroid	NOT-EXAMINE
			parathyroid	NOT-EXAMINE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			epididymis	leukemic cell infiltration,<2>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 138

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1124	DEAD	81-2	semin ves	leukemic cell infiltration,<2>
			prostate	leukemic cell infiltration,<2>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	inflammation,<2>
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:leukemia
1125	SCHEDULED	105-5	skin/app	abscess,<1>,with,squamous cell hyperplasia
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			Lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1125	SCHEDULED	105-5	spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
epididymis	NON-REMARKABLE			
semin ves	NON-REMARKABLE			
prostate	NON-REMARKABLE			

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1125	SCHEDULED	105-5	mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1126	SCHEDULED	105-5	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 141

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1126	SCHEDULED	105-5	esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<2>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1126	SCHEDULED	105-5	eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1127	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	bronchiolar-alveolar adenoma,'0'
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      :Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1127	SCHEDULED	105-5	Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'0'
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 144

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1128	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>//eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			Lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	Lymphadenitis,<1>
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      \* :Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 145

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1128	SCHEDULED	105-5	pituitary	NON-REMARKABLE
			thyroid	follicular hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			panc islet	adenoma,'0'
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1129	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1129	SCHEDULED	105-5	trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,' 0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1129	SCHEDULED	105-5	adrenal	hyperplasia:medulla,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			liver gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1130	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>//eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-105W)

PAGE : 148

Animal ID-No.	Death Information	Time of Examination Week-Day	Organ	Findings
1130	SCHEDULED	105-5	thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//basophilic cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	C-cell adenoma,' 0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,' 0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1130	SCHEDULED	105-5	prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	inflammation,<1>
			muscle	NON-REMARKABLE
1131	DEAD	102-6	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<1>
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
ANIMAL : RAT F344  
REPORT TYPE : A1  
SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
ALL ANIMALS (0-105W)

PAGE : 150

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1131	DEAD	102-6	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'1'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	mineralization,<1>//hyaline body,<1>
			spinal cord	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1131	DEAD	102-6	periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:leukemia
1132	DEAD	67-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<1>,diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1050)

PAGE : 152

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1132	DEAD	67-6	stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//necrosis:central,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma:malignant,'3'
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 153

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1132	DEAD	67-6	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:adrenal gland
1133	MORBUND	98-4	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>;ulcer:forestomach,<1>
			small intes	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 154

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1133	HORIBUND	98-4	large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 155

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1133	MORIBUND	98-4	bone	NON-REMARKABLE
			peritoneum	mesothelioma, '4'
			Cause of Death	tumor death:peritoneum
1134	SCHEDULED	105-6	skin/app	epidermal cyst, <1>
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	granulation, <1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis, <1>
			artery/aort	arteritis, <1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 156

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1134	SCHEDULED	105-6	large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 157

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1134	SCHEDULED	105-6	bone	NON-REMARKABLE
1135	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavity	inflammation:foreign body,<3>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>// eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<1>
			pancreas	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 158

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1135	SCHEDULED	105-6	kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
muscle	NON-REMARKABLE			
bone	NON-REMARKABLE			
1136	DEAD	103-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 159

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1136	DEAD	103-4	larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	NON-REMARKABLE
			urin bladd	NON-REMARKABLE
pituitary	NON-REMARKABLE			
thyroid	NON-REMARKABLE			

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 160

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1136	DEAD	103-4	parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			Zymbal gl	adenocarcinoma,'3'
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
				Cause of Death
1137	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : AI  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 161

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1137	SCHEDULED	105-6	trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	granulation,<1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//renal cell carcinoma,'0'
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 162

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1137	SCHEDULED	105-6	adrenal	NON-REMARKABLE
			testis	atrophy, <1> // interstitial cell tumor, '0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia, <1>
			mammary gl	NON-REMARKABLE
			prep/cli gl	adenoma, '0'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1138	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE

( ): Comment      <1>: Slight      <2>: Moderate      <3>: Marked      <4>: Severe      ' ': Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 163

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1138	SCHEDULED	105-6	lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 164

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1138	SCHEDULED	105-6	semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			liver gl	inflammation,<2>
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1139	HORBUND	99-2	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>// eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 165

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1139	MORIBUND	99-2	heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>//ulcer:glandular stomach,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//fatty change,<2>,portal region//hyperplasia,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'4'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<1>
			mammary gl	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1139	MORTIBUND	99-2	brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:pituitary gland
1140	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      \* :Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 167

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1140	SCHEDULED	105-6	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatitis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semn ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
mammary gl	NON-REMARKABLE			
brain	NON-REMARKABLE			
spinal cord	NON-REMARKABLE			

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 168

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1140	SCHEDULED	105-6	periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1141	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
small intes	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 169

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1141	SCHEDULED	105-7	Large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	cortical adenoma,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	granulation,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1141	SCHEDULED	105-7	bone	NON-REMARKABLE
1142	DEAD	103-3	skin/app	NON-REMARKABLE
			subcutis	fibroma,'1'
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	reticulosis,<4>
			lymph node	leukemic cell infiltration,<2>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	mineralization,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<2>
			pancreas	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 171

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1142	DEAD	103-3	kidney	leukemic cell infiltration,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'1'
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	leukemic cell infiltration,<1>
			semin ves	NON-REMARKABLE
			prostate	leukemic cell infiltration,<1>
			mammary gl	NON-REMARKABLE
			brain	leukemic cell infiltration,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	leukemic cell infiltration,<1>
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
Cause of Death				tumor death:Leukemia

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1143	HORIBUND	100-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	interstitial penumonia,<1>
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>//mineralization,<1>,with,myocardial degeneration
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	hyperplasia:forestomach,<2>//mineralization,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//fatty change,<1>,portal region
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	transitional cell papilloma,'1'

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1143	HORIBUND	100-7	pituitary	adenoma,' 4'
			thyroid	C-cell carcinoma,' 1'
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,' 1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	keratitis,<2>
			harder gl	NON-REMARKABLE
muscle	necrosis,<2>,with,mineralization			
bone	NON-REMARKABLE			
			Cause of Death	tumor death:pituitary gland
1144	DEAD	92-1	skin/app	NON-REMARKABLE
			subcutis	fibroma,' 1'

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1144	DEAD	92-1	nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<1>,diffuse
			bone marrow	granulation,<1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//nonnuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//necrosis:central,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'1',intermediate area

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ_____	Findings_____
1144	DEAD	92-1	thyroid	NON-REMARKABLE
			parathyroid	hyperplasia,<1>
			adrenal	pheochromocytoma,'1',with,thrombus
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
		Cause of Death	tumor death: leukemia	
1145	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 176

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1145	SCHEDULED	105-7	trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	thymoma:benign,'0'
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
pituitary	NON-REMARKABLE			
thyroid	NON-REMARKABLE			
parathyroid	NON-REMARKABLE			

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 177

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1145	SCHEDULED	105-7	panc islet	adenoma,'0'
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1146	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			Lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE

( ):Comment    <1>:Slight    <2>:Moderate    <3>:Marked    <4>:Severe    ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 178

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1146	SCHEDULED	105-7	Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105#)

PAGE : 179

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1146	SCHEDULED	105-7	semin ves	NON-REMARKABLE
			prostate	granulation,<1>//hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1147	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	bronchiolar-alveolar adenoma,'0'
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>

( ):Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 180

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1147	SCHEDULED	105-7	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context



STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1147	SCHEDULED	105-7	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1148	SCHEDULED	105-3	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>//mineralization,<1>,with,myocardial degeneration
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<2>//mineralization,<2>

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context

STUDY NO. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 50 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-105W)

PAGE : 182

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1148	SCHEDULED	105-3	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	hyperplasia,<1>
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	fibroadenoma,'0'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//keratitis,<2>
			Harder gl	NON-REMARKABLE

( ):Comment      <1>:Slight      <2>:Moderate      <3>:Marked      <4>:Severe      ' ':Context