

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1201	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//eosinophilic change:olfactory epithelium,<1>// inflammation:foreign body,<2>;respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	deposit of hemosiderin,<2>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<2>//lymphocytic infiltration,<2>//granulation,<2>//hepatocellular adenoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1201	SCHEDULED	105-1	pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	hyperplasia:medulla,<2>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<2>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1202	DEAD	94-3	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	Leukemic cell infiltration,<3>

():Comment

<1>:Slight

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1202	DEAD	94-3	bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<3>
			thymus	NOT-EXAMINE
			spleen	mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<3>
			pancreas	NON-REMARKABLE
			kidney	deposit of hemosiderin,<1>//leukemic cell infiltration,<2>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'

():Comment

<1>:Slight

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1202	DEAD	94-3	epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	leukemic cell infiltration,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1203	DEAD	103-4	Cause of Death	tumor death (LEUKEMIA)
			skin/app	keratoacanthoma,'1'
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE

():Comment

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1203	DEAD	103-4	spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	atrophy,<2>
			kidney	chronic nephropathy,<1>
			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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1203	DEAD	103-4	mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<2>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			Zymbal gl	Zymbal gland tumor:malignant,'4'
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1204	SCHEDULED	105-1	Cause of Death	tumor death (ZYNBAL GLAND TUMOR)
			skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>//branchiolar-alveolar cell hyperplasia,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	fibrosis,<1>
			heart	myocardial fibrosis,<1>

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1204	SCHEDULED	105-1	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>//mixed cell focus,<2>
			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	inflammation,<2>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<2>

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1204	SCHEDULED	105-1	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	myxoma,'0'
			bone	NON-REMARKABLE
			adipose	granulation,<1>
1205	DEAD	104-6	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//inflammation:foreign body,<2>,respiratory epithelium//thrombus,<3> (AUTOLYSIS)
			trachea	NON-REMARKABLE
			lung/branch	metastasis:adrenal tumor,<1>//leukemic cell infiltration,<2>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<2>//thrombus,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

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1205	DEAD	104-6	gl stomach	atrophy:glandular mucosa,<2>//erosion,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>//leukemic cell infiltration,<2>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>//tubular necrosis,<3>
			urin bladd	transitional cell papilloma,'2'
			pituitary	hyperplasia,<2>
			thyroid	C-cell adenoma,'1'
			parathyroid	NON-REMARKABLE
			adrenal	cortical adenocarcinoma,'2'
			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	cataract,<1>

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1205	DEAD	104-6	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death (LEUKEMIA)
1206	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:olfactory epithelium,<1>//eosinophilic change:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<1>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	granulation,<2>
			thymus	NOT-EXAMINE
			spleen	deposit of hemosiderin,<3>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1206	SCHEDULED	105-1	Large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//basophilic cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>//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	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1206	SCHEDULED	105-1	bone	NON-REMARKABLE
1207	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	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
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//basophilic cell focus,<1>//vacuolated cell focus,<1>// hepatocellular adenoma,'0'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1207	SCHEDULED	105-1	urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	pheochromocytoma,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	adenoma,'0'
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1208	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //eosinophilic change:respiratory epithelium,<1>//inflammation:foreign body,<1>,respiratory epithelium

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1208	SCHEDULED	105-1	trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>
			bone marrow	NON-REMARKABLE
			lymph node	granulation,<2>
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//mixed cell focus,<2>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1208	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	cataract,<1>
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1209	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//eosinophilic change:olfactory epithelium,<1>// inflammation:foreign body,<1>,respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	metastasis:adrenal tumor,<2>
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1209	SCHEDULED	105-1	thymus	NOT-EXAMINE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//clear cell focus,<2>//vacuolated cell focus,<1>//mixed cell focus,<2>
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			panc islet	islet cell adenoma,'0'
			adrenal	pheochromocytoma:malignant,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1209	SCHEDULED	105-1	prostate	inflammation,<2>//adenoma,'0'
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1210	MORIBUND	83-4	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	metastasis:bone tumor,<3>
			bone marrow	erythropoiesis:increased,<2>
			lymph node	metastasis:bone tumor,<3>
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<3>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1210	MORIBUND	83-4	esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	metastasis:bone tumor,<4>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//hydropic change,<1>//metastasis:bone tumor,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'1'
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	metastasis:bone tumor,<4>
			testis	interstitial cell tumor,'1'
			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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1210	MORIBUND	83-4	eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	osteosarcoma,'4'
			Cause of Death	tumor death (BONE TUMOR)
1211	MORIBUND	80-6	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	metastasis:bone tumor,<2>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 203

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1211	MORIBUND	80-6	large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>//vacuolated cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>//adenoma,'1'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<2>
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 204

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1211	MORIBUND	80-6	bone	osteosarcoma,' 4'
			Cause of Death	tumor death (BONE TUMOR)
1212	MORIBUND	99-6	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//eosinophilic change:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<1>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	ulcer,<3>
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//fatty change,<3>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 205

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1212	MORIBUND	99-6	pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>//adenoma,'1'
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'4'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<2>
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<2>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			pleura	pleuritis,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 206

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1212	MORIBUND	99-6		
			Cause of Death	tumor death (PITUITARY TUMOR)
1213	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //eosinophilic change:respiratory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	thrombus,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<3>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			anus	hemangioendothelioma,'0'
			large intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 207

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1213	SCHEDULED	105-1	liver	bile duct hyperplasia,<1>//hyperplasia,<2>//spongiosis hepatis,<2>
			pancreas	NON-REMARKABLE
			kidney	NON-REMARKABLE
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<2>
			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>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 208

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1214	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>//eosinophilic change:respiratory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	bronchiolar-alveolar adenoma,'0'
			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
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//vacuolated cell focus,<3>//basophilic cell focus,<1>// mixed cell focus,<2>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 209

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1214	SCHEDULED	105-1	pituitary	adenoma,'0'
			thyroid	C-cell hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<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	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'
1215	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //eosinophilic change:respiratory epithelium,<1>//nuclear enlargement:olfactory epithelium,<1>,supporting cell

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 210

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1215	SCHEDULED	105-1	trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>
			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
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<2>//clear cell focus,<2>//mixed cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	Rathke pouch,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 211

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1215	SCHEDULED	105-1	adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	adenoma,'0'
			prep/cli gl	preputial gland tumor,'0'
			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
			adipose	granulation,<1>
1216	DEAD	92-3	skin/app	NON-REMARKABLE
			subcutis	fibrosarcoma,'3'
			nasal cavit	deposit of calcium,<1>//thrombus,<3>
			trachea	NON-REMARKABLE
			lung/bronch	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 212

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1216	DEAD	92-3	bone marrow	erythropoiesis:increased,<2>
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	deposit of hemosiderin,<3>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//collapse,<3>
			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,'1'

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 213

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1216	DEAD	92-3	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	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1217	SCHEDULED	105-1	Cause of Death	tumor death (SUBCUTIS TUMOR)
			skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>//metastasis:thyroid tumor,<2>
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 214

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1217	SCHEDULED	105-1	spleen	deposit of hemosiderin,<1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<2>//hyperplasia,<1>//basophilic cell focus,<1>//clear cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//adenoma,'0'
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>//cyst,<1>
			thyroid	C-cell carcinoma,'0'
			parathyroid	NOT-EXAMINE
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 215

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1217	SCHEDULED	105-1	mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//keratitis,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			adipose	granulation,<1>
1218	SCHEDULED	105-1	skin/app	keratoacanthoma,'0'
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //inflammation:foreign body,<2>,respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<2>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 216

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1218	SCHEDULED	105-1	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatitis,<1>//mixed cell focus,<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	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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 217

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1218	SCHEDULED	105-1	periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1219	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 218

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1219	SCHEDULED	105-1	liver	bile duct hyperplasia,<1>//hyperplasia,<3>//acidophilic cell focus,<2>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			panc islet	islet cell adenoma,'0'
			adrenal	pheochromocytoma,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<2>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 219

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1220	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	granulation,<2>
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<3>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//herniation,<2>//vacuolated cell focus,<2>//acidophilic cell focus,<2>
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1220	SCHEDULED	105-1	thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	pheochromocytoma,'0'
			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>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1221	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //inflammation:foreign body,<1>,respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 221

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1221	SCHEDULED	105-1	bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//vacuolated cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'0'
			testis	interstitial cell tumor,'0'

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 222

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1221	SCHEDULED	105-1	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	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			adipose	granulation,<1>
1222	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>//inflammation:foreign body,<2>, respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 223

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1222	SCHEDULED	105-1	spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<2>
			thyroid	C-cell adenoma,'0'
			parathyroid	NOT-EXAMINE
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 224

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1222	SCHEDULED	105-1	mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1223	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>
			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

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 225

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1223	SCHEDULED	105-1	esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//vacuolated cell focus,<1>//acidophilic cell focus,<1>//fatty change,<2>// hepatocellular adenoma,'0'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<3>
			mammary gl	NON-REMARKABLE
			prep/cli gl	preputial gland tumor,'0'
			brain	hyaline body,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 226

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1223	SCHEDULED	105-1	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1224	DEAD	92-5	skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<3>
			trachea	NON-REMARKABLE
			lung/branch	congestion,<1>,with,edema
			bone marrow	erythropoiesis:increased,<1>
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	extramedullary hematopoiesis,<3>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 227

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1224	DEAD	92-5	large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//collapse,<3>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//tubular necrosis,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'2'
			parathyroid	NOT-EXAMINE
			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	NOT-EXAMINE
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 228

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1224	DEAD	92-5	bone	NON-REMARKABLE
			peritoneum	mesothelioma,'4'
			Cause of Death	tumor death (MESOTHELIOMA)
1225	DEAD	89-4	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>//eosinophilic change:respiratory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<1>
			small intes	schwannoma:malignant,'4'
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>//necrosis:central,<3>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 229

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1225	DEAD	89-4	pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NOT-EXAMINE
			parathyroid	NOT-EXAMINE
			adrenal	NON-REMARKABLE
			testis	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	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 230

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1225	DEAD	89-4		(INTESTIN TUMOR)
1226	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//eosinophilic change:olfactory epithelium,<1>// eosinophilic change:respiratory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	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
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>//hyperplasia,<2>//vacuolated cell focus,<1>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 231

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1226	SCHEDULED	105-1	pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>
			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
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			adipose	granulation,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

GROUP NAME : 1000 ppm

PAGE : 232

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1227	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	fibrosis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//vacuolated cell focus,<2>//necrosis:focal,<1>//granulation,<1>// hepatocellular adenoma,'0'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>//deposit of hemosiderin,<1>
			urin bladd	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 233

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1227	SCHEDULED	105-1	pituitary	Rathke pouch,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<1>
			mammary gl	NON-REMARKABLE
			prep/cli gl	preputial gland tumor,'0'
			brain	thrombus,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1228	SCHEDULED	105-1	peritoneum	mesothelioma,'0'
			skin/app	NON-REMARKABLE
			subcutis	abscess,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 234

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1228	SCHEDULED	105-1	nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>//inflammation:foreign body,<1>, respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>
			bone marrow	NON-REMARKABLE
			lymph node	granulation,<2>
			thymus	NON-REMARKABLE
			spleen	fibrosis,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//fatty change,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 235

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1228	SCHEDULED	105-1	thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			prep/cli gl	preputial gland tumor,'0'
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1229	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //sclerosis:lamina propria,<1>,focal,ethmoturbinate
			trachea	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 236

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1229	SCHEDULED	105-1	Lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<2>//vacuolated cell focus,<2>//mixed cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	Rathke pouch,<2>//adenoma,'0'
			thyroid	C-cell hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			panc islet	islet cell adenoma,'0'

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1229	SCHEDULED	105-1	adrenal	pheochromocytoma,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<2>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1230	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //inflammation:foreign body,<1>,respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1230	SCHEDULED	105-1	thymus	NOT-EXAMINE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<1>
			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	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 239

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1230	SCHEDULED	105-1	prostate	NON-REMARKABLE
			mammary gl	adenoma,' 0'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1231	MORIBUND	96-6	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>
			trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>
			bone marrow	hypoplasia,<1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 240

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1231	MORIBUND	96-6	esophagus	NON-REMARKABLE
			forestomach	ulcer,<3>
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<1>//fatty change,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'2'
			thyroid	C-cell hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<3>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 241

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1231	MORIBUND	96-6	periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	chronic nephropathy
1232	SCHEDULED	105-1	skin/app	epidermal cyst,'0'
			subcutis	fibroma,'0'
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>//nuclear enlargement:olfactory epithelium,<1>, supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	granulation,<2>//metastasis:thyroid tumor,<2>
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 242

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1232	SCHEDULED	105-1	esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<2>//vacuolated cell focus,<2>//clear cell focus,<2>//granulation,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	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

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 243

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1232	SCHEDULED	105-1	eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1233	SCHEDULED	105-1	skin/app	trichoepithelioma,'0'
			nasal cavit	deposit of calcium,<1>
			trachea	NON-REMARKABLE
			lung/branch	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
			gl stomach	atrophy:glandular mucosa,<2>
			jejunum	devernicula,<2>
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 244

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1233	SCHEDULED	105-1	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	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 245

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1234	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			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
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//acidophilic cell focus,<2>//mixed cell focus,<2>//granulation,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 246

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1234	SCHEDULED	105-1	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	hyaline body,<2>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	inflammation,<2>
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1235	DEAD	66-5	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1> (AUTOLYSIS)
			trachea	NON-REMARKABLE
			lung/branch	congestion,<3>,with,edema

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 247

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1235	DEAD	66-5	bone marrow	hypoplasia,<1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	NON-REMARKABLE
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'4'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 248

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1235	DEAD	66-5	epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<3>
			mammary gl	NON-REMARKABLE
			brain	hemorrhage,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1236	SCHEDULED	105-1	Cause of Death	tumor death (PITUITARY TUMOR)
			skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/bronch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 249

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1236	SCHEDULED	105-1	thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<1>//cyst formation,<1>//granulation,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<2>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 250

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1236	SCHEDULED	105-1	prostate	inflammation,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1237	MORIBUND	82-2	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //inflammation:foreign body,<1>,respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	leukemic cell infiltration,<3>
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<2>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 251

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1237	MORIBUND	82-2	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			forestomach	hyperplasia,<3>//ulcer,<2>
			gl stomach	atrophy:glandular mucosa,<2>//ulcer,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//leukemic cell infiltration,<2>
			pancreas	atrophy,<2>
			kidney	chronic nephropathy,<2>
			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	leukemic cell infiltration,<2>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 252

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1237	MORIBUND	82-2	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)
1238	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//inflammation:foreign body,<2>,respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	osseous metaplasia,<1>
			bone marrow	NON-REMARKABLE
			lymph node	metastasis:thyroid tumor,<1>
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	papilloma,'0'
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 253

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1238	SCHEDULED	105-1	gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<2>//vacuolated cell focus,<1>//clear cell focus,<1>// acidophilic cell focus,<2>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell carcinoma,'0'
			parathyroid	NOT-EXAMINE
			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

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 254

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1238	SCHEDULED	105-1	eye	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1239	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//eosinophilic change:olfactory epithelium,<2>// inflammation:foreign body,<3>,respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	reticulosis,<3>
			lymph node	granulation,<1>
			thymus	NOT-EXAMINE
			spleen	extramedullary hematopoiesis,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 255

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1239	SCHEDULED	105-1	liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			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
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 256

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1240	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	fibroma,' 0'
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<2>//clear cell focus,<2>//mixed cell focus,<1>//cyst formation,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 257

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1240	SCHEDULED	105-1	pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	adenoma,'0'
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<2>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1241	DEAD	69-6	skin/app	epidermal cyst,'1'
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	congestion,<3>,with,edema

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1241	DEAD	69-6	bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	hemorrhage,<2>
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'4'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 259

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1241	DEAD	69-6	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
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1242	SCHEDULED	105-1	Cause of Death	tumor death (PITUITARY TUMOR)
			skin/app	papilloma,'0'
			nasal cavit	deposit of calcium,<1>///inflammation:foreign body,<1>,respiratory epithelium// nuclear enlargement:olfactory epithelium,<1>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 260

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1242	SCHEDULED	105-1	thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<2>//spongiosis hepatis,<1>//mixed cell focus,<2>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<2>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>//pheochromocytoma,'0' //pheochromocytoma:malignant,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 261

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1242	SCHEDULED	105-1	prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			prep/cli gl	preputial gland tumor,'0'
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<2>//retinal atrophy,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1243	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 262

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1243	SCHEDULED	105-1	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>//vacuolated cell focus,<1>//clear cell focus,<2>//mixed cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell 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	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
 ANIMAL : RAT F344
 REPORT TYPE : A1
 SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
 ALL ANIMALS (0-104W)

PAGE : 263

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1243	SCHEDULED	105-1	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1244	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			larynx	inflammation,<2>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	deposit of hemosiderin,<1>//necrosis:focal,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 264

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1244	SCHEDULED	105-1	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<1>//basophilic cell focus,<1>//mixed cell focus,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			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
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 265

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1244	SCHEDULED	105-1	muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1245	DEAD	100-3	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//thrombus,<1>
			trachea	NON-REMARKABLE
			lung/branch	leukemic cell infiltration,<3>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	mononuclear cell leukemia,'2'
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//collapse,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//tubular necrosis,<4>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 266

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1245	DEAD	100-3	urin bladd	NON-REMARKABLE
			pituitary	adenoma,'4'
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	cortical adenoma,'1'
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<3>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			adipose	granulation,<1>
			Cause of Death	tumor death

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 267

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1245	DEAD	100-3		(PITUITARY TUMOR)
1246	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>//mixed cell focus,<2>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 268

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1246	SCHEDULED	105-1	urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	C-cell carcinoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<2>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<3>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	inflammation,<2>
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1247	SCHEDULED	105-1	peritoneum	mesothelioma,'0'
			skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 269

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1247	SCHEDULED	105-1	trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//vacuolated cell focus,<1>//clear cell focus,<1>
			pancreas	atrophy,<2>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 270

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1247	SCHEDULED	105-1	adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<1>//adenoma,'0'
			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
1248	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //inflammation:foreign body,<1>,respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 271

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1248	SCHEDULED	105-1	thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	NOT-EXAMINE
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	pheochromocytoma,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 272

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1248	SCHEDULED	105-1	prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<2>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1249	MORIBUND	80-6	skin/app	NON-REMARKABLE
			subcutis	malignant fibrous histiocytoma,'4'
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//inflammation:foreign body,<1>, respiratory epithelium//thrombus,<3>
			larynx	inflammation,<2>
			trachea	NON-REMARKABLE
			lung/branch	metastasis:subcutis tumor,<2>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<3>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 273

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1249	MORIBUND	80-6	heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	metastasis:subcutis tumor,<3>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	Rathke pouch,<2>
			thyroid	C-cell adenoma,'1'
			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

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 274

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1249	MORIBUND	80-6	brain	hemorrhage,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1250	SCHEDULED	105-1	Cause of Death	tumor death (SUBCUTIS TUMOR)
			skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>
			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

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 275

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1250	SCHEDULED	105-1	esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//basophilic cell focus,<1>//vacuolated cell focus,<1>// acidophilic cell focus,<1>//mixed cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	Rathke pouch,<2>//hyperplasia,<2>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'0'
			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

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 1000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 276

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1250	SCHEDULED	105-1	periph neru	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
():Comment <1>:Slight <2>:Moderate <3>:Marked <4>:Severe ' ':Context				
(HPT050)				BAIS2

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 277

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1301	DEAD	100-4	skin/app	NON-REMARKABLE
			subcutis	fibroma,'2'
			nasal cavit	squamous cell metaplasia,<1>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium// sclerosis:lamina propria,<2>,focal,pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<1>, ethmoturbinate,nasoturbinate//respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<1>//inflammation, <2>,squamous epithelium//nuclear enlargement:respiratory epithelium,<1>//nuclear enlargement:olfactory epithelium,<2>, supporting cell//atrophy:olfactory epithelium,<2>//squamous cell carcinoma,'3',follicular,muco-epidermoid type, level 3,dorsal
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	extramedullary hematopoiesis,<2>//deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 278

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1301	DEAD	100-4	Large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//hyperplasia,<3>//basophilic cell focus,<1>//hepatocellular adenoma,'1'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<1>//tubular necrosis,<4>//hyperplasia,<1>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NOT-EXAMINE
			parathyroid	NOT-EXAMINE
			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	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 279

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1301	DEAD	100-4	bone	NON-REMARKABLE
			Cause of Death	renal lesion
1302	MORIBUND	97-3	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//thrombus,<3>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<2>,focal,pulmonary artery,with//adhesion,<1>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>//nuclear enlargement:respiratory epithelium,<1>//nuclear enlargement:olfactory epithelium,<2>,supporting cell//eosinophilic change:olfactory epithelium,<1>
			trachea	NOT-EXAMINE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	extramedullary hematopoiesis,<3>
			heart	myocardial fibrosis,<1>
			tongue	NOT-EXAMINE
			salivary gl	NON-REMARKABLE
			esophagus	NOT-EXAMINE
			gl stomach	atrophy:glandular mucosa,<3>//erosion,<1>
			small intes	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 280

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1302	MORIBUND	97-3	large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//hyperplasia,<1>//fatty change:central,<3>//necrosis:focal,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>//hydropic change,<2>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NOT-EXAMINE
			parathyroid	NOT-EXAMINE
			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	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 281

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1302	MORIBUND	97-3	bone	NON-REMARKABLE
			peritoneum	mesothelioma,' 2'
1303	DEAD	86-5	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal, ethmoturbinate,with,deposit of calcium//adhesion,<1>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<3>/ nuclear enlargement:respiratory epithelium,<1>//nuclear enlargement:olfactory epithelium,<2>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 282

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1303	DEAD	86-5	liver	bile duct hyperplasia,<2>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<1>//hydropic change,<3>//nuclear enlargement:proximal tubule,<1>//schwannoma,'4'
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	hyperplasia:medulla,<2>
			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	cataract,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 283

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1303	DEAD	86-5	peritoneum	mesothelioma,'1'
			Cause of Death	tumor death (KIDNEY TUMOR)
1304	DEAD	100-3	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<2>//hydropic change:lamina propria,<3>,dorsal, with,deposit of calcium//sclerosis:lamina propria,<1>,focal,pulmonary artery,with,deposit of calcium, osseous metaplasia//adhesion,<1>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<3>// squamous cell metaplasia,<1>//nuclear enlargement:olfactory epithelium,<2>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	metastasis:tongue tumor,<2>
			bone marrow	hypoplasia,<1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<2>
			heart	myocardial fibrosis,<2>
			tongue	squamous cell carcinoma,'4'
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 284

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1304	DEAD	100-3	Large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//hyperplasia,<1>//basophilic cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//tubular necrosis,<2>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NOT-EXAMINE
			parathyroid	NOT-EXAMINE
			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	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 285

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1304	DEAD	100-3	bone	NON-REMARKABLE
			Cause of Death	tumor death (TONGUE TUMOR)
1305	MORIBUND	100-3	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<1>//hydropic change:lamina propria,<3>,dorsal, with,deposit of calcium//sclerosis:lamina propria,<3>,focal,ethmoturbinate,with,deposit of calcium//adhesion,<3>, ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>//nuclear enlargement:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<1>,supporting cell//inflammation:foreign body,<1>,respiratory epithelium// inflammation,<1>,squamous epithelium//sarcoma:NOS,'4',nasoturbinate
			trachea	NON-REMARKABLE
			lung/branch	pneumonia:NOS,<2>
			bone marrow	erythropoiesis:increased,<1>
			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
			gl stomach	atrophy:glandular mucosa,<1>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 286

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1305	MORIBUND	100-3	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<2>//basophilic cell focus,<1>//herniation,<1>//clear cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>
			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	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 287

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1305	MORIBUND	100-3	muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death (NASAL TUMOR)
1306	DEAD	85-2	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//thrombus,<3>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium// sclerosis:lamina propria,<1>,focal,pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<2>, ethmoturbinate,nasoturbinate (AUTOLYSIS)
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	erythropoiesis:increased,<2>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 288

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1306	DEAD	85-2	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<2>//spongiosis hepatis,<1>//necrosis:central,<3>//hepatocellular carcinoma, ' 2'
			pancreas	atrophy,<1>
			kidney	hyperplasia,<2>//nuclear enlargement:proximal tubule,<1>
			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	cataract,<1>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 289

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1306	DEAD	85-2	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'4'
			Cause of Death	tumor death (MESOTHELIOMA)
1307	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<2>//hydropic change:lamina propria,<3>,dorsal, with,deposit of calcium,osseous metaplasia//eosinophilic change:olfactory epithelium,<1>//sclerosis:lamina propria, <1>,focal,ethmoturbinate,with,deposit of calcium//adhesion,<2>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>//nuclear enlargement:respiratory epithelium,<2>// nuclear enlargement:olfactory epithelium,<2>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	bronchiolar-alveolar cell hyperplasia,<1>
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 290

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1307	SCHEDULED	105-1	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<2>//spongiosis hepatitis,<1>//basophilic cell focus,<1>//clear cell focus,<2>// mixed cell focus,<2>//hepatocellular adenoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenocarcinoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	hyperplasia:medulla,<2>
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 291

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1307	SCHEDULED	105-1	brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'
1308	MORIBUND	102-7	skin/app	NON-REMARKABLE
			subcutis	fibroma,'1'
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<2>//eosinophilic change:olfactory epithelium,<1> //hydropic change:lamina propria,<2>,dorsal,with,deposit of calcium//adhesion,<1>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<1>//nuclear enlargement:respiratory epithelium,<1>//proliferation:nasal gland,<2>// squamous cell carcinoma,'4',well-keratinizing,muco-epidermoid type,level 1,level 2,dorsal
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<3>//deposit of hemosiderin,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 292

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1308	MORIBUND	102-7	heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<2>//basophilic cell focus,<1>//necrosis:focal,<3>// hepatocellular adenoma,'1'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 293

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1308	MORIBUND	102-7	mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1309	SCHEDULED	105-1	Cause of Death	tumor death (NASAL TUMOR)
			skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<2>//eosinophilic change:olfactory epithelium,<1> //hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium,osseous metaplasia//sclerosis:lamina propria,<1>, focal,ethmoturbinate,with,deposit of calcium//adhesion,<1>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium, <2>//squamous cell metaplasia,<2>//nuclear enlargement:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<2>,supporting cell//rhinitis,<1>,acute
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	metastasis:thyroid tumor,<1>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1309	SCHEDULED	105-1	thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>//fibrosis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<2>//basophilic cell focus,<2>//clear cell focus,<2>// hepatocellular adenoma,'0'//hepatocellular carcinoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<2>//adenoma,'0'
			thyroid	C-cell carcinoma,'0'
			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. : 0063
 ANIMAL : RAT F344
 REPORT TYPE : A1
 SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
 ALL ANIMALS (0-104W)

PAGE : 295

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1309	SCHEDULED	105-1	semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'
1310	DEAD	92-2	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<2>//thrombus,<2>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal,pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<1>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>//nuclear enlargement:respiratory epithelium,<1>//nuclear enlargement:olfactory epithelium,<1>,supporting cell//inflammation,<2>,squamous epithelium
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	erythropoiesis:increased,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 296

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1310	DEAD	92-2	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
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatitis,<1>//fatty change:central,<1>//bile ductular proliferation,<2>//
				collapse,<2>
			pancreas	atrophy,<2>
			kidney	chronic nephropathy,<2>//hydropic change,<3>//nuclear enlargement:proximal tubule,<1>//deposit of hemosiderin,<2>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 297

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1310	DEAD	92-2	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	cataract,<1>//retinal atrophy,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'4'
			Cause of Death	tumor death (MESOTHELIOMA)
1311	DEAD	93-7	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<2>//thrombus,<3>//hydropic change:lamina propria,<2>,dorsal//inflammation:foreign body,<1>,respiratory epithelium//atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>//nuclear enlargement:respiratory epithelium,<1>//nuclear enlargement:olfactory epithelium,<2>,supporting cell//rhinitis,<1>,acute//inflammation,<2>,squamous epithelium

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 298

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1311	DEAD	93-7	trachea	NON-REMARKABLE
			lung/bronch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<3>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<2>//spongiosis hepatis,<2>//necrosis:central,<3>//bile ductular proliferation,<1>//hepatocellular adenoma,'1'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<1>//tubular necrosis,<2>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell hyperplasia,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 299

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1311	DEAD	93-7	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
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'4'
1312	DEAD	97-5	Cause of Death	tumor death (MESOTHELIOMA)
			skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//adhesion,<1>, ethmoturbinate,nasoturbinate

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 300

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1312	DEAD	97-5	nasal cavit	(AUTOLYSIS)
			trachea	NON-REMARKABLE
			lung/branch	leukemic cell infiltration,<3>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	hemorrhage,<3>
			spleen	mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>//hepatocellular adenoma,'1'//leukemic cell infiltration,<2>
			pancreas	atrophy,<2>
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 301

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1312	DEAD	97-5	thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	leukemic cell infiltration,<2>
			spinal cord	leukemic cell infiltration,<2>
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death (LEUKERIA)
1313	DEAD	101-6	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<1>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal,ethmoturbinate//adhesion,<1>,ethmoturbinate,nasoturbinate//squamous cell metaplasia,<1>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 302

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1313	DEAD	101-6	nasal cavit	(AUTOLYSIS)
			trachea	NON-REMARKABLE
			lung/branch	congestion,<2>,with,edema
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			forestomach	ulcer,<3>
			gl stomach	atrophy:glandular mucosa,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<3>//hyperplasia,<3>//spongiosis hepatitis,<2>//hepatocellular adenoma,'2'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>//hydropic change,<2>//nuclear enlargement:proximal tubule,<2>
			urin bladd	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 303

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1313	DEAD	101-6	pituitary	cyst,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	peliosis-like lesion,<3>
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>//granular cell tumor,'1'
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1314	SCHEDULED	105-1	Cause of Death	hepatic lesion
			skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<1>//inflammation:foreign body,<2>,

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 304

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1314	SCHEDULED	105-1		respiratory epithelium//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium,osseous metaplasia// sclerosis:lamina propria,<1>,focal,ethmoturbinate,with,deposit of calcium//adhesion,<2>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<2>//nuclear enlargement:olfactory epithelium,<2>, supporting cell//squamous cell hyperplasia,<2> trachea NON-REMARKABLE lung/branch NON-REMARKABLE bone marrow NON-REMARKABLE lymph node NON-REMARKABLE thymus NON-REMARKABLE spleen extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>//fibrosis,<1> heart myocardial fibrosis,<1> tongue NON-REMARKABLE salivary gl NON-REMARKABLE esophagus NON-REMARKABLE gl stomach atrophy:glandular mucosa,<2> small intes NON-REMARKABLE large intes NON-REMARKABLE liver bile duct hyperplasia,<2>//hyperplasia,<3>//spongiosis hepatis,<2>//vacuolated cell focus,<2>//acidophilic cell focus, <2>//mixed cell focus,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 305

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1314	SCHEDULED	105-1	pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	fibroadenoma,'0'
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	retinal atrophy,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1315	DEAD	93-2	skin/app	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 306

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1315	DEAD	93-2	nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //thrombus,<3>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<2>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>//nuclear enlargement:olfactory epithelium,<2>, supporting cell//nuclear enlargement:respiratory epithelium,<1>
			trachea	NON-REMARKABLE
			lung/branch	osseous metaplasia,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	hemorrhage,<2>
			spleen	extramedullary hematopoiesis,<3>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<2>//fatty change:central,<2>//necrosis:central,<3>
			pancreas	atrophy,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 307

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1315	DEAD	93-2	kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>
			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	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'4'
			Cause of Death	tumor death

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 308

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1315	DEAD	93-2		(MESOTHELIOMA)
1316	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<2>//hydropic change:lamina propria,<3>,dorsal, with,deposit of calcium//sclerosis:lamina propria,<2>,focal,pulmonary artery,with,deposit of calcium, osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>// squamous cell metaplasia,<2>//nuclear enlargement:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<2>,supporting cell//inflammation,<1>,squamous epithelium
			trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>//deposit of hemosiderin,<1>//fibrosis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 309

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1316	SCHEDULED	105-1	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<2>//basophilic cell focus,<2>//acidophilic cell focus,<2>// hepatocellular adenoma,'0'//hepatocellular carcinoma,'0'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>//nuclear enlargement:proximal tubule,<2>//lipoma,'0'
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>//adenoma,'0'
			thyroid	C-cell hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<2>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 310

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1316	SCHEDULED	105-1	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'
1317	DEAD	97-4	skin/app	NON-REMARKABLE
			subcutis	fibrosarcoma,'3'//fibroma,'1'
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<2>//eosinophilic change:olfactory epithelium,<2> //hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>//nuclear enlargement:respiratory epithelium,<1>/ nuclear enlargement:olfactory epithelium,<2>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 311

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1317	DEAD	97-4	esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<3>//basophilic cell focus,<1>//hepatocellular adenoma,'2'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<1>
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 312

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1317	DEAD	97-4	eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death (SUBCUTIS TUMOR)
1318	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<1>//sclerosis:lamina propria,<2>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate// squamous cell metaplasia,<2>//inflammation,<2>,squamous epithelium//rhabdomyosarcoma,'0',level 2,level 3,dorsal (RHABDOMYOBLASTOMA TYPE ,LOW MAL)
			trachea	NON-REMARKABLE
			lung/branch	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

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 313

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1318	SCHEDULED	105-1	esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<2>//spongiosis hepatis,<1>//clear cell focus,<1>//hepatocellular adenoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>//nuclear enlargement:proximal tubule,<2>//deposit of hemosiderin,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			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

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 314

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1318	SCHEDULED	105-1	eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'
1319	DEAD	101-7	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<2>//eosinophilic change:olfactory epithelium,<2> //thrombus,<3>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<2>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<3>//squamous cell metaplasia,<2>//nuclear enlargement:respiratory epithelium,<1>/ nuclear enlargement:olfactory epithelium,<2>,supporting cell//inflammation,<2>,squamous epithelium
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	extramedullary hematopoiesis,<2>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 315

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1319	DEAD	101-7	esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<2>//spongiosis hepatis,<3>//basophilic cell focus,<1>//necrosis:central,<3>// hepatocellular adenoma,'1'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>
			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
			prep/cli gl	preputial gland tumor,'1'
			brain	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 316

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1319	DEAD	101-7	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'4'
1320	SCHEDULED	105-1	Cause of Death	tumor death (MESOTHELIOMA)
			skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<2>//hydropic change:lamina propria,<3>,dorsal// sclerosis:lamina propria,<1>,focal,ethmoturbinate,with,deposit of calcium//adhesion,<1>,ethmoturbinate,nasoturbinate// inflammation:foreign body,<2>,respiratory epithelium//atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<2>// nuclear enlargement:olfactory epithelium,<2>,supporting cell//proliferation:nasal gland,<1>//inflammation,<1>, squamous epithelium//rhinitis,<1>,acute//sarcoma:NOS,'0',level 2,dorsal (FIBROSARCOMA LIKE,EARY STAGE)
			trachea	NON-REMARKABLE
			lung/branch	bronchiolar-alveolar adenoma,'0'
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 317

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1320	SCHEDULED	105-1	thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>//fibrosis,<1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<3>//mixed cell focus,<2>//hepatocellular adenoma,'0'// hepatocellular carcinoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<2>
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	hyperplasia:medulla,<2>//hyperplasia:cortical cell,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 318

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1320	SCHEDULED	105-1	semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph neru	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1321	DEAD	99-3	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//inflammation:foreign body,<2>, respiratory epithelium//sclerosis:lamina propria,<2>,focal,pulmonary artery,with,deposit of calcium, osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate//squamous cell carcinoma,'1',well-keratinizing,level 1, dorsal (AUTOLYSIS)
			trachea	NON-REMARKABLE
			lung/branch	congestion,<1>,with,edema
			bone marrow	erythropoiesis:increased,<1>
			lymph node	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 319

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1321	DEAD	99-3	thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<3>
			heart	myocardial fibrosis,<1>//thrombus,<3>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>//ulcer,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<3>//necrosis:focal,<3>//collapse,<2>//hepatocellular adenoma,'1'
			pancreas	atrophy,<3>
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>//tubular necrosis,<3>
			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

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 320

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1321	DEAD	99-3	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
			peritoneum	mesothelioma,'4'
1322	SCHEDULED	105-1	Cause of Death	tumor death (MESOTHELIOMA)
			skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//hydropic change:lamina propria,<3>,dorsal, with,deposit of calcium//sclerosis:lamina propria,<2>,focal,pulmonary artery,with,deposit of calcium, osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>// nuclear enlargement:olfactory epithelium,<2>,supporting cell//proliferation:nasal gland,<1>//inflammation,<3>, squamous epithelium//rhinitis,<1>,acute
			trachea	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 321

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1322	SCHEDULED	105-1	lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	granulation,<1>
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//deposit of hemosiderin,<1>//fibrosis,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<2>//spongiosis hepatis,<2>//mixed cell focus,<2>//hepatocellular adenoma,'0' // hepatocellular carcinoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 322

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1322	SCHEDULED	105-1	adrenal	pheochromocytoma,'0'
			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>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'
1323	MORIBUND	89-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<2> //thrombus,<1>//sclerosis:lamina propria,<2>,focal,pulmonary artery,with,deposit of calcium,osseous metaplasia// adhesion,<1>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<1>//squamous cell metaplasia,<1>// nuclear enlargement:olfactory epithelium,<1>,supporting cell//inflammation,<2>,squamous epithelium//rhinitis,<1>, acute//esthesioneuroepithelioma,'4',level 2,level 3,dorsal

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 323

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1323	MORIBUND	89-1	trachea	NON-REMARKABLE
			lung/branch	leukemic cell infiltration,<3>
			bone marrow	hypoplasia,<2>
			lymph node	leukemic cell infiltration,<2>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'2'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			forestomach	hyperplasia,<2>
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<3>//hepatocellular carcinoma,'1'//leukemic cell infiltration,<2>
			pancreas	atrophy,<3>
			kidney	chronic nephropathy,<2>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 324

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1323	MORIBUND	89-1	parathyroid	NOT-EXAMINE
			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
			bone	NON-REMARKABLE
1324	SCHEDULED	105-1	Cause of Death	tumor death (NASAL TUMOR)
			skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<1>//hydropic change:lamina propria,<2>,dorsal, with,deposit of calcium//sclerosis:lamina propria,<1>,focal,pulmonary artery,with,deposit of calcium, osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>//

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 325

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1324	SCHEDULED	105-1		squamous cell metaplasia,<2>//nuclear enlargement:olfactory epithelium,<1>,supporting cell//inflammation:foreign body,<1>,respiratory epithelium
			trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>
			bone marrow	NON-REMARKABLE
			lymph node	granulation,<2>
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<2>//spongiosis hepatis,<1>//vacuolated cell focus,<3>//mixed cell focus,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 326

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1324	SCHEDULED	105-1	pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma:malignant,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	adenoma,'0'
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1325	DEAD	104-7	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<2> //thrombus,<1>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate//

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 327

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1325	DEAD	104-7		atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>//nuclear enlargement:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<2>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>//fibrosis,<1>
			heart	myocardial fibrosis,<1>
			artery/aort	arteritis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//hyperplasia,<3>//spongiosis hepatis,<2>//basophilic cell focus,<2>//vacuolated cell focus, <1>//collapse,<3>//hepatocellular adenoma,'1'
			pancreas	atrophy,<2>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 328

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1325	DEAD	104-7	kidney	chronic nephropathy,<3>//hydropic change,<3>//nuclear enlargement:proximal tubule,<1>
			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	adenoma,'1'
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'3'
			Cause of Death	tumor death

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 329

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1325	DEAD	104-7		(MESOTHELIOMA)
1326	DEAD	84-3	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//thrombus,<3>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal,pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>//nuclear enlargement:olfactory epithelium,<2>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	erythropoiesis:increased,<2>
			lymph node	NON-REMARKABLE
			thymus	hemorrhage,<2>
			spleen	extramedullary hematopoiesis,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 330

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1326	DEAD	84-3	liver	bile duct hyperplasia,<2>//hyperplasia,<2>//necrosis:central,<3>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//hydropic change,<1>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NOT-EXAMINE
			parathyroid	NOT-EXAMINE
			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	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 331

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1326	DEAD	84-3	peritoneum	mesothelioma,'4'
			Cause of Death	tumor death (MESOTHELIOMA)
1327	DEAD	98-4	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //thrombus,<3>//hydropic change:lamina propria,<3>,dorsal//adhesion,<1>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<1>//squamous cell metaplasia,<1>//nuclear enlargement:olfactory epithelium,<1>, supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	erythropoiesis:increased,<2>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>
			heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 332

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1327	DEAD	98-4	Large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<2>//spongiosis hepatis,<2>//necrosis:central,<3>//hepatocellular carcinoma, '1'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<2>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<2>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<2>
			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	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 333

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1327	DEAD	98-4	muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'4'
			Cause of Death	tumor death (MESOTHELIOMA)
1328	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<2>//eosinophilic change:olfactory epithelium,<1> //hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<1>//squamous cell metaplasia,<1>//nuclear enlargement:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<2>,supporting cell//rhinitis,<2>,acute
			trachea	NON-REMARKABLE
			lung/branch	bronchiolar-alveolar adenoma,'0'
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<2>//fibrosis,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 334

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1328	SCHEDULED	105-1	esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<2>//basophilic cell focus,<2>//fatty change,<2>//hepatocellular carcinoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<2>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<2>
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 335

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1328	SCHEDULED	105-1	eye	cataract,<1>//retinal atrophy,<2>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1329	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<2>//eosinophilic change:olfactory epithelium,<1> //inflammation:foreign body,<1>,respiratory epithelium//adhesion,<1>,ethmoturbinate,nasoturbinate// nuclear enlargement:respiratory epithelium,<1>//nuclear enlargement:olfactory epithelium,<2>,supporting cell// inflammation,<2>,squamous epithelium
			trachea	NON-REMARKABLE
			lung/branch	leukemic cell infiltration,<3>
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<2>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			artery/aort	arteritis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 336

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1329	SCHEDULED	105-1	st stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//hepatocellular adenoma,'0'//leukemic cell infiltration,<2>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	leukemic cell infiltration,<3>
			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	cataract,<1>//retinal atrophy,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 337

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1329	SCHEDULED	105-1	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1330	DEAD	95-4	skin/app	NON-REMARKABLE
			nasal cavit	deposit of calcium,<2>//thrombus,<3>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium// sclerosis:lamina propria,<1>,focal,pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<1>, ethmoturbinate,nasoturbinate (AUTOLYSIS)
			trachea	NON-REMARKABLE
			lung/branch	congestion,<2>,with,edema
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>
			heart	myocardial fibrosis,<2>//thrombus,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<2>
			small intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 338

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1330	DEAD	95-4	large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//necrosis:focal,<3>//collapse,<3>//hepatocellular carcinoma,'2'
			pancreas	NON-REMARKABLE
			kidney	nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			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
			eye	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 339

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1330	DEAD	95-4	bone	NON-REMARKABLE
			peritoneum	mesothelioma,'4'
			Cause of Death	tumor death (MESOTHELIOMA)
1331	MORIBUND	84-6	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//inflammation:foreign body,<1>, respiratory epithelium//hydropic change:lamina propria,<2>,dorsal,with,deposit of calcium//sclerosis:lamina propria, <1>,focal,ethmoturbinate,with,deposit of calcium//adhesion,<1>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>//nuclear enlargement:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<1>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	leukemic cell infiltration,<3>
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<3>
			thymus	NOT-EXAMINE
			spleen	mononuclear cell leukemia,'4'
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 340

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1331	MORIBUND	84-6	gl stomach	atrophy:glandular mucosa,<2>//erosion,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	hyperplasia,<2>//spongiosis hepatis,<1>//fatty change,<3>//leukemic cell infiltration,<2>
			pancreas	atrophy,<1>
			kidney	nuclear enlargement:proximal tubule,<1>//deposit of hemosiderin,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NOT-EXAMINE
			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

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 341

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1331	MORIBUND	84-6	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'1'
			Cause of Death	tumor death (LEUKEMIA)
1332	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<1>//inflammation:foreign body,<1>, respiratory epithelium//hydropic change:lamina propria,<4>,dorsal,with,deposit of calcium,osseous metaplasia// sclerosis:lamina propria,<1>,focal,pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<1>, ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<2>// nuclear enlargement:respiratory epithelium,<1>//nuclear enlargement:olfactory epithelium,<1>,supporting cell// inflammation,<1>,squamous epithelium//rhinitis,<1>,acute
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>//thrombus,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 342

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1332	SCHEDULED	105-1	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			forestomach	ulcer,<1>
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<3>//hepatocellular carcinoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<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

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 343

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1332	SCHEDULED	105-1	brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0' //fibroma,'0'
1333	DEAD	100-4	skin/app	NON-REMARKABLE
			subcutis	fibroma,'2'
			nasal cavit	deposit of calcium,<1>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria, <1>,focal,pulmonary artery,with//adhesion,<2>,ethmoturbinate,nasoturbinate (AUTOLYSIS)
			trachea	NON-REMARKABLE
			lung/branch	leukemic cell infiltration,<2>
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<2>
			thymus	NOT-EXAMINE
			spleen	mononuclear cell leukemia,'3'
			heart	myocardial fibrosis,<2>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 344

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1333	DEAD	100-4	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	spongiosis hepatis,<2>//hepatocellular carcinoma,'2'//leukemic cell infiltration,<3>
			pancreas	atrophy,<1>
			kidney	nuclear enlargement:proximal tubule,<1>
			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	leukemic cell infiltration,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 345

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1333	DEAD	100-4	spinal cord	leukemic cell infiltration,<1>
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death (LEUKEMIA)
1334	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<2>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<2>,focal,squamous cell metaplasia,slight//nuclear enlargement:respiratory epithelium, <1>//nuclear enlargement:olfactory epithelium,<2>,supporting cell//rhinitis,<1>,acute
			trachea	NON-REMARKABLE
			lung/branch	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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 346

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1334	SCHEDULED	105-1	heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<2>//hyperplasia,<2>//vacuolated cell focus,<2>//mixed cell focus,<1>
			pancreas	atrophy,<2>
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			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

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 347

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1334	SCHEDULED	105-1	brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1335	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<2> //eosinophilic change:respiratory epithelium,<1>//inflammation:foreign body,<1>,respiratory epithelium// hydropic change:lamina propria,<2>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<2>,focal, pulmonary artery,with,deposit of calcium//adhesion,<2>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2> //squamous cell metaplasia,<1>//nuclear enlargement:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<1>,supporting cell//inflammation,<2>,squamous epithelium//rhinitis,<1>, acute
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	granulation,<1>
			thymus	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 348

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1335	SCHEDULED	105-1	spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<2>//spongiosis hepatis,<3>//hepatocellular carcinoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<2>//degeneration:tubulus,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			adrenal	degeneration,<2>,cortico-medullary junction
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 349

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1335	SCHEDULED	105-1	mammary gl	NON-REMARKABLE
			prep/cli gl	preputial gland tumor,'0'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>//retinal atrophy,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1336	DEAD	72-5	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//hydropic change:lamina propria,<3>,dorsal, with,deposit of calcium//sclerosis:lamina propria,<2>,focal,pulmonary artery,with,deposit of calcium, osseous metaplasia//adhesion,<1>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>// squamous cell metaplasia,<1>//nuclear enlargement:olfactory epithelium,<2>,supporting cell//rhinitis,<3>,acute
			trachea	NON-REMARKABLE
			lung/branch	congestion,<2>,with,edema
			bone marrow	erythropoiesis:increased,<1>
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 350

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1336	DEAD	72-5	heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<1>
			small intes	malignant fibrous histiocytoma,'2'
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//vacuolated cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	nuclear enlargement:proximal tubule,<1>
			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

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 351

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1336	DEAD	72-5	brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1337	DEAD	104-6	Cause of Death	nasal lesion
			skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<2>,focal,ethmoturbinate,with,deposit of calcium//adhesion,<1>,ethmoturbinate,nasoturbinate//rhinitis,<4>,acute
			trachea	NON-REMARKABLE
			lung/branch	leukemic cell infiltration,<3>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<2>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 352

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1337	DEAD	104-6	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hepatocellular carcinoma,'2'//leukemic cell infiltration,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>//hydropic change,<3>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'2'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	leukemic cell infiltration,<1>
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	leukemic cell infiltration,<2>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 353

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1337	DEAD	104-6	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'1'
1338	SCHEDULED	105-1	Cause of Death	tumor death (LEUKEMIA)
			skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<2>//eosinophilic change:olfactory epithelium,<1> //hydropic change:lamina propria,<2>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<2>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<1>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>//nuclear enlargement:olfactory epithelium,<1>, supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	granulation,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 354

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1338	SCHEDULED	105-1	thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<3>//basophilic cell focus,<1>//clear cell focus,<1>// hepatocellular adenoma,'0'
			pancreas	NOT-EXAMINE
			kidney	chronic nephropathy,<2>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	peliosis-like lesion,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 355

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1338	SCHEDULED	105-1	semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	fibroadenoma,'0'
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph neru	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'
1339	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//hydropic change:lamina propria,<3>,dorsal, with,deposit of calcium//sclerosis:lamina propria,<2>,focal,ethmoturbinate,with,deposit of calcium//adhesion,<2>, ethmoturbinate,nasoturbinate//squamous cell metaplasia,<1>//nuclear enlargement:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<2>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	bronchiolar-alveolar adenoma,'0'
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 356

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1339	SCHEDULED	105-1	thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<2>//spongiosis hepatis,<1>//basophilic cell focus,<1>//vacuolated cell focus,<1>//mixed cell focus,<2>//hepatocellular adenoma,'0'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NOT-EXAMINE
			adrenal	peliosis-like lesion,<2>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 357

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1339	SCHEDULED	105-1	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>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1340	SCHEDULED	105-1	peritoneum	mesothelioma,'0'
			skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<1>//inflammation:foreign body,<1>, respiratory epithelium//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria, <3>,focal,pulmonary artery,with,deposit of calcium,ossecus metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>//nuclear enlargement:olfactory epithelium,<2>, supporting cell//rhinitis,<2>,acute
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 358

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1340	SCHEDULED	105-1	bone marrow	NON-REMARKABLE
			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
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>//clear cell focus,<2>//mixed cell focus,<1>//granulation,<1>// hepatocellular adenoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 359

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1340	SCHEDULED	105-1	testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<2>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'
1341	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	respiratory metaplasia,<1>,olfactory epithelium//deposit of calcium,<2>//eosinophilic change:olfactory epithelium,<1> //hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<1>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<1>//nuclear enlargement:respiratory epithelium,<1>// nuclear enlargement:olfactory epithelium,<1>,supporting cell//rhinitis,<1>,acute

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 360

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1341	SCHEDULED	105-1	trachea	NON-REMARKABLE
			lung/bronch	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
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<2>//spongiosis hepatis,<3>//vacuolated cell focus,<1>//clear cell focus,<1>//mixed cell focus,<2>//hepatocellular adenoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>
			thyroid	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 361

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1341	SCHEDULED	105-1	parathyroid	NOT-EXAMINE
			adrenal	peliosis-like lesion,<3>//pheochromocytoma,'0'
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<1>
			mammary gl	fibroadenoma,'0'
			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
			peritoneum	mesothelioma,'0'
1342	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //hydropic change:lamina propria,<2>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal, ethmoturbinate,with,deposit of calcium//adhesion,<1>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>// squamous cell metaplasia,<1>//nuclear enlargement:respiratory epithelium,<1>//

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 362

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1342	SCHEDULED	105-1		nuclear enlargement:olfactory epithelium,<1>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	accumulation of foamy cells,<1>//osseous metaplasia,<1>
			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
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<2>//spongiosis hepatis,<2>//acidophilic cell focus,<1>// hepatocellular adenoma,'0'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>
			urin bladd	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1342	SCHEDULED	105-1	pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<1>//peliosis-like lesion,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<2>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'
1343	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<2>//eosinophilic change:olfactory epithelium,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 364

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1343	SCHEDULED	105-1		//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//adhesion,<1>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>//nuclear enlargement:olfactory epithelium,<1>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	erythropoiesis:increased,<1>
			lymph node	NON-REMARKABLE
			thymus	cyst,<2>
			spleen	extramedullary hematopoiesis,<2>//deposit of hemosiderin,<2>//fibrosis,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//hyperplasia,<3>//spongiosis hepatis,<3>//basophilic cell focus,<1>//clear cell focus,<2>//acidophilic cell focus,<2>//mixed cell focus,<1>
			pancreas	atrophy,<2>
			kidney	chronic nephropathy,<2>//nuclear enlargement:proximal tubule,<1>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 365

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1343	SCHEDULED	105-1	urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<2>
			thyroid	C-cell hyperplasia,<1>
			parathyroid	NOT-EXAMINE
			adrenal	peliosis-like lesion,<1>
			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	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1344	MORIBUND	83-6	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //hydropic change:lamina propria,<2>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal,

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 366

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1344	MORIBUND	83-6		pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<2>,ethmoturbinate,nasoturbinate// atrophy:olfactory epithelium,<2>//thrombus,<2>//nuclear enlargement:olfactory epithelium,<2>,supporting cell// nuclear enlargement:respiratory epithelium,<1>//rhinitis,<1>,acute//squamous cell hyperplasia,<2> trachea NON-REMARKABLE lung/branch osseous metaplasia,<1> bone marrow erythropoiesis:increased,<2> lymph node NON-REMARKABLE thymus NOT-EXAMINE spleen extramedullary hematopoiesis,<2> heart myocardial fibrosis,<1> tongue NON-REMARKABLE salivary gl NON-REMARKABLE esophagus NON-REMARKABLE gl stomach atrophy:glandular mucosa,<2>//erosion,<1> small intes NON-REMARKABLE large intes NON-REMARKABLE liver bile duct hyperplasia,<2>//collapse,<1>//fatty change,<1> pancreas NON-REMARKABLE kidney chronic nephropathy,<1>//hydropic change,<2>//nuclear enlargement:proximal tubule,<1>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 367

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1344	MORIBUND	83-6	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
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'4'
			adipose	granulation,<1>
			Cause of Death	tumor death

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 368

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1344	MORIBUND	83-6		(MESOTHELIOMA)
1345	MORIBUND	67-6	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:olfactory epithelium,<1> //inflammation:foreign body,<1>,respiratory epithelium//hydropic change:lamina propria,<2>,dorsal,with, deposit of calcium//sclerosis:lamina propria,<2>,focal,pulmonary artery,with,deposit of calcium,osseous metaplasia// adhesion,<2>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>// nuclear enlargement:respiratory epithelium,<1>//nuclear enlargement:olfactory epithelium,<2>,supporting cell// hemorrhage,<2>
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	erythropoiesis:increased,<1>
			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
			gl stomach	atrophy:glandular mucosa,<2>//erosion,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 369

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1345	MORIBUND	67-6	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//basophilic cell focus,<1>//fatty change,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell hyperplasia,<2>
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 370

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1345	MORIBUND	67-6	muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	nasal lesion
1346	DEAD	66-1	skin/app	NON-REMARKABLE
			nasal cavit	hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<2>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<1>,ethmoturbinate,nasoturbinate (AUTOLYSIS)
			trachea	NON-REMARKABLE
			Lung/branch	congestion,<3>//branchiolar-alveolar adenoma,'1'
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	hemorrhage,<2>
			spleen	deposit of hemosiderin,<2>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 371

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1346	DEAD	66-1	large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//mixed cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			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,'4'
			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. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 372

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1346	DEAD	66-1	bone	NON-REMARKABLE
			Cause of Death	tumor death (BRAIN TUMOR)
1347	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<3>,olfactory epithelium//deposit of calcium,<2>//eosinophilic change:olfactory epithelium,<1> //inflammation:foreign body,<1>,respiratory epithelium//hydropic change:lamina propria,<2>,dorsal,with, deposit of calcium//sclerosis:lamina propria,<2>,focal,pulmonary artery,with,deposit of calcium,osseous metaplasia// adhesion,<2>,ethmoturbinate,nasoturbinate//atrophy:olfactory epithelium,<2>//squamous cell metaplasia,<1>// nuclear enlargement:respiratory epithelium,<1>//nuclear enlargement:olfactory epithelium,<2>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 373

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1347	SCHEDULED	105-1	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatitis,<2>//basophilic cell focus,<1>//mixed cell focus,<2>// hepatocellular adenoma,'0'//hepatocellular carcinoma,'0'
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>
			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	adenoma,'0'
			brain	hyaline body,<2>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
 ANIMAL : RAT F344
 REPORT TYPE : A1
 SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
 ALL ANIMALS (0-104W)

PAGE : 374

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1347	SCHEDULED	105-1	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1348	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//inflammation:foreign body,<2>, respiratory epithelium//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria, <1>,focal,ethmoturbinate,with,deposit of calcium//nuclear enlargement:olfactory epithelium,<1>,supporting cell
			trachea	NON-REMARKABLE
			lung/branch	leukemic cell infiltration,<2>
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<3>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			forestomach	edema,<2>
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 375

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1348	SCHEDULED	105-1	Large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>//hepatocellular adenoma,'0'//leukemic cell infiltration,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	leukemic cell infiltration,<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,<2>//phthisis bulbi,<3>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

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

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 376

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1348	SCHEDULED	105-1	bone	NON-REMARKABLE
1349	DEAD	101-3	skin/app	squamous cell carcinoma,'1'
			nasal cavit	deposit of calcium,<2>//inflammation:foreign body,<2>,respiratory epithelium//hydropic change:lamina propria,<3>, dorsal,with,deposit of calcium//sclerosis:lamina propria,<1>,focal,ethmoturbinate,with,deposit of calcium//adhesion,<1>,ethmoturbinate,nasoturbinate//squamous cell metaplasia,<1> (AUTOLYSIS)
			trachea	NON-REMARKABLE
			lung/branch	congestion,<3>,with,edema
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NOT-EXAMINE
			spleen	deposit of hemosiderin,<2>
			heart	myocardial fibrosis,<3>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>//fatty change,<2>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 377

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1349	DEAD	101-3	pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>//tubular necrosis,<3>//nuclear enlargement:proximal tubule,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'4'
			thyroid	C-cell adenoma,'2'
			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	cataract,<1>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'1'

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 378

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1349	DEAD	101-3		
			Cause of Death	tumor death (PITUITARY TUMOR)
1350	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	respiratory metaplasia,<2>,olfactory epithelium//deposit of calcium,<1>//eosinophilic change:respiratory epithelium, <1>//hydropic change:lamina propria,<3>,dorsal,with,deposit of calcium//sclerosis:lamina propria,<3>,focal, pulmonary artery,with,deposit of calcium,osseous metaplasia//adhesion,<3>,ethmoturbinate,nasoturbinate//rhinitis,<2>, acute
			trachea	NON-REMARKABLE
			lung/branch	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	fibrosis,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			gl stomach	atrophy:glandular mucosa,<2>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 379

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1350	SCHEDULED	105-1	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatitis,<1>//vacuolated cell focus,<1>//mixed cell focus,<2>// hepatocellular adenoma,'0'
			pancreas	atrophy,<3>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell 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	cataract,<1>//retinal atrophy,<1>

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

STUDY NO. : 0063
ANIMAL : RAT F344
REPORT TYPE : A1
SEX : MALE

GROUP NAME : 5000 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)
ALL ANIMALS (0-104W)

PAGE : 380

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1350	SCHEDULED	105-1	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			peritoneum	mesothelioma,'0'

():Comment

<1>:Slight

<2>:Moderate

<3>:Marked

<4>:Severe

' ':Context

(HPT050)

BAIS2