

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

GROUP NAME : 50 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1148	SCHEDULED	105-3	muscle	necrosis,<1>,with,mineralization
			bone	NON-REMARKABLE
1149	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<1>//hyperplasia:forestomach,<2>
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			
liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>			
pancreas	atrophy,<1>			

( ):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
1149	SCHEDULED	105-5	kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	follicular hyperplasia,<1>//follicular adenocarcinoma,'0'
			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			
retroperit	schwannoma:malignant,'0'			
1150	SCHEDULED	105-7	skin/app	NON-REMARKABLE

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1150	SCHEDULED	105-7	nasal cavit	eosinophilic change:respiratory epithelium,<1>//eosinophilic change:olfactory epithelium,<3>
			Larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			Lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//vacuolated cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	NON-REMARKABLE
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1150	SCHEDULED	105-7	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	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1201	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	sarcoma:NOS,'0'
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>

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

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 ALL ANIMALS (0-1050)

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1201	SCHEDULED	105-1	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	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			
1202	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE

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

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 ALL ANIMALS (0-105W)

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1202	SCHEDULED	105-1	trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//spongiosis hepatitis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	follicular hyperplasia,<1>//C-cell hyperplasia,<1>
			parathyroid	NON-REMARKABLE

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 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1202	SCHEDULED	105-1	adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1203	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1203	SCHEDULED	105-1	thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatitis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1203	SCHEDULED	105-1	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
			adipose	granulation,<1>
1204	SCHEDULED	105-1	skin/app	epidermal cyst,<1>
			nasal cavit	NON-REMARKABLE
			Larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			Lung	bronchiolar-alveolar cell hyperplasia,<2>
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>

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 ALL ANIMALS (0-105W)

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1204	SCHEDULED	105-1	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>//granulation,<1>//cholangiocellular carcinoma,'0',mucinous// leukemic cell infiltration,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE

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 ALL ANIMALS (0-105W)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1204	SCHEDULED	105-1	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>
1205	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1205	SCHEDULED	105-1	esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	C-cell adenoma,'0'
			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			

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1205	SCHEDULED	105-1	eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1206	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1206	SCHEDULED	105-1	Liver	bile duct hyperplasia,<1>//spongiosis hepatitis,<1>//mixed cell focus,<1>//leukemic cell infiltration,<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	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1207	SCHEDULED	105-1	skin/app	epidermal cyst,<1>
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1207	SCHEDULED	105-1	pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			liver gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
1208	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE

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1208	SCHEDULED	105-1	Lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	granulation,<2>,serosa
			liver	bile duct hyperplasia,<1>//hyperplasia,<1>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell carcinoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE

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 ALL ANIMALS (0-105W)

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1208	SCHEDULED	105-1	testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1209	HORIBUND	74-6	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	metastasis:bone tumor,<2>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
thymus	NON-REMARKABLE			

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1209	HORIBUND	74-6	spleen	extramedullary hematopoiesis,<1>//mononuclear cell leukemia,'2'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//metastasis:bone tumor,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'2'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1209	HORIBUND	74-6	mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	osteosarcoma,'3'
			Cause of Death	tumor death:bone
1210	HORIBUND	101-5	skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	leukemic cell infiltration,<1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<1>

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1210	NORIBUND	101-5	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<1>//ulcer:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//leukemic cell infiltration,<1>,with,necrosis
			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,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1210	MORIBUND	101-5	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
1211	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
salivary gl	NON-REMARKABLE			

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1211	SCHEDULED	105-4	esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE

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



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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1211	SCHEDULED	105-4	eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1212	SCHEDULED	105-4	skin/app	epidermal cyst,<1>
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	bronchiolar-alveolar cell hyperplasia,<2>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	fibrosis,<1>,focal
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1212	SCHEDULED	105-4	Liver	bile duct hyperplasia,<1>//vacuolated cell focus,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1213	MORBUND	104-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	bronchiolar-alveolar cell hyperplasia,<1>//metastasis:thyroid tumor,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//fibrosis,<1>,focal//mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1213	NORIBUND	104-7	pituitary	hyperplasia,<1>
			thyroid	C-cell carcinoma,'1'
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>//pheochromocytoma,'1'
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			prep/cli gl	adenoma,'1'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
		Cause of Death	tumor death: leukemia	
1214	SCHEDULED	105-4	skin/app	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1214	SCHEDULED	105-4	nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
kidney	chronic nephropathy,<2>			
urin bladd	NON-REMARKABLE			
pituitary	hyperplasia,<1>			

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

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

GROUP NAME : 200 ppm

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

PAGE : 212

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1214	SCHEDULED	105-4	thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
1215	MORBUND	101-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1215	HORIBUND	101-7	bone marrow	leukemic cell infiltration,<1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,' 3'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<2>//ulcer:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion//renal cell carcinoma,' 2' // leukemic cell infiltration,<1>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,' 2' //leukemic cell infiltration,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1215	HORIBUND	101-7	testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<2>//retinal atrophy,<3>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
				Cause of Death tumor death:Leukemia
			1216	SCHEDULED
nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//eosinophilic change:respiratory epithelium,<2>			
Larynx	NON-REMARKABLE			
trachea	NON-REMARKABLE			
lung	NON-REMARKABLE			
bone marrow	NON-REMARKABLE			

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



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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1216	SCHEDULED	105-4	Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 216

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1216	SCHEDULED	105-4	semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1217	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>// eosinophilic change:olfactory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	Lymphadenitis,<1>
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 217

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1217	SCHEDULED	105-4	heart	myocardial fibrosis,<2>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 218

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1217	SCHEDULED	105-4	brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			liver gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1218	SCHEDULED	105-4	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>// eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	Lymphadenitis,<1>
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>//mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 219

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1218	SCHEDULED	105-4	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			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. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 200 ppm

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

PAGE : 220

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1218	SCHEDULED	105-4	periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1219	MORTIBUND	92-6	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<2>
			bone marrow	leukemic cell infiltration,<2>
			lymph node	leukemic cell infiltration,<2>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<2>//ulcer:glandular stomach,<2>
small intes	NON-REMARKABLE			

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1219	HORIBUND	92-6	Large intes	NON-REMARKABLE
			Liver	fatty change,<1>,portal region//leukemic cell infiltration,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//leukemic cell infiltration,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'1'//leukemic cell infiltration,<1>
			thyroid	C-cell adenoma,'1'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	leukemic cell infiltration,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1219	MORIBUND	92-6	bone	NON-REMARKABLE
			Cause of Death	tumor death: leukemia
1220	DEAD	77-3	skin/app	NON-REMARKABLE
			subcutis	fibroma, '4'
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis, <1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE

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



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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1220	DEAD	77-3	Liver	NON-REMARKABLE
			pancreas	NON-REMARKABLE
			kidney	NON-REMARKABLE
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>,intermediate area
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1220	DEAD	77-3		
			Cause of Death	tumor death:subcutis
1221	DEAD	97-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<1>,diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//acidophilic cell focus,<1>

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1221	DEAD	97-4	pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>//nuclear enlargement:proximal tubule,<1>,straight portion//papillary necrosis,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

Cause of Death renal lesion

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1222	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			Lung	bronchiolar-alveolar adenoma,'0'
			bone marrow	NON-REMARKABLE
			Lymph node	Lymphadenitis,<1>
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1222	SCHEDULED	105-5	pituitary	adenoma,' 0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma:malignant,' 0'
			testis	NON-REMARKABLE
			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			
1223	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			subcutis	schwannoma:malignant,' 0'
			nasal cavit	inflammation:foreign body,<4>,respiratory epithelium
			larynx	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1223	SCHEDULED	105-5	trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<2>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>
			thyroid	C-cell carcinoma,'0'
			parathyroid	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1223	SCHEDULED	105-5	adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1224	DEAD	86-5	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1224	DEAD	86-5	thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	NON-REMARKABLE
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

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



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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1224	DEAD	86-5	prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			prep/cli gl	adenoma, '4'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:preputial/clitoral gland
1225	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
thymus	NON-REMARKABLE			

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1225	SCHEDULED	105-5	spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//hydronephrosis,<1>
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1225	SCHEDULED	105-5	mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1226	SCHEDULED	105-5	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			subcutis	Lipoma,'0'
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	fibrosis,<1>,focal//mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 234

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1226	SCHEDULED	105-5	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'0'
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1226	SCHEDULED	105-5	periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1227	MORIBUND	102-1	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium//thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<1>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	leukemic cell infiltration,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>
small intes	NON-REMARKABLE			

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1227	HORIBUND	102-1	large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//spongiosis hepatis,<2>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'1'
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1227	NORIBUND	102-1	bone	NON-REMARKABLE
			Cause of Death	tumor death:leukemia
1228	NORIBUND	95-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	myelofibrosis,<1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>//mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>//hyperplasia:forestomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1228	NORIBUND	95-6	pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<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	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death: leukemia

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



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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1229	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1229	SCHEDULED	105-5	pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			liver gl	NON-REMARKABLE
muscle	NON-REMARKABLE			
1230	SCHEDULED	105-5	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1230	SCHEDULED	105-5	lung	leukemic cell infiltration,<1>
			bone marrow	leukemic cell infiltration,<4>
			lymph node	leukemic cell infiltration,<1>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			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. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1230	SCHEDULED	105-5	testis	atrophy,<1>///interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	leukemic cell infiltration,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			1231	DEAD
nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//thrombus,<1>			
larynx	NON-REMARKABLE			
trachea	NON-REMARKABLE			
lung	leukemic cell infiltration,<1>			
bone marrow	NON-REMARKABLE			
lymph node	NON-REMARKABLE			
thymus	NON-REMARKABLE			

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1231	DEAD	70-4	spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>.with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'1'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 244

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1231	DEAD	70-4	mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death: leukemia
1232	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavity	inflammation:foreign body,<3>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
heart	myocardial fibrosis,<1>			

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

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

GROUP NAME : 200 ppm

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

PAGE : 245

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1232	SCHEDULED	105-6	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 246

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1232	SCHEDULED	105-6	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1233	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>/ eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

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



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

GROUP NAME : 200 ppm

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

PAGE : 247

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1233	SCHEDULED	105-6	stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			panc islet	adenocarcinoma,'0'
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1233	SCHEDULED	105-6	eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1234	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1234	SCHEDULED	105-6	Liver	bile duct hyperplasia,<1>//hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 250

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1235	HORIBUND	104-7	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1235	HORIBUND	104-7	pituitary	adenoma, '3'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy, <1> // hyperplasia, <1>
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	granulation, <1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
			Cause of Death	tumor death: pituitary gland
1236	DEAD	103-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 252

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1236	DEAD	103-4	Larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<1>,diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'4'
			thyroid	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1236	DEAD	103-4	parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor; 1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
			Cause of Death	tumor death:pituitary gland
1237	DEAD	96-3	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 254

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1237	DEAD	96-3	Lung	congestion,<1>,diffuse
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>//dilatation,<1>,atrium
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,' 4'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE

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



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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1237	DEAD	96-3	testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:pituitary gland
1238	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1238	SCHEDULED	105-6	Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1238	SCHEDULED	105-6	semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph neru	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1239	HORIBUND	96-7	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<1>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1239	HORIBUND	96-7	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<2>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//leukemic cell infiltration,<1>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'1'//leukemic cell infiltration,<1>
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1239	HORIBUND	96-7	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
1240	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation: foreign body, <2>, respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 260

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1240	SCHEDULED	105-6	esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	Rathke pouch,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1240	SCHEDULED	105-6	eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	hyperplasia,<1>
1241	DEAD	100-1	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<1>,diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	hemorrhage,<2>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1241	DEAD	100-1	Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma, '4'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

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



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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1241	DEAD	100-1		
			Cause of Death	tumor death:pituitary gland
1242	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	fibrosis,<1>,focal
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>

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

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

GROUP NAME : 200 ppm

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

PAGE : 264

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1242	SCHEDULED	105-7	pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'0'
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
muscle	NON-REMARKABLE			
bone	NON-REMARKABLE			
1243	NORIBUND	79-4	skin/app	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 265

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1243	HORBUND	79-4	subcutis	leiomyosarcoma, '4'
			nasal cavit	thrombus, <1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis, <1>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	necrosis:central, <2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy, <1>
			urin bladd	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1243	MORIBUND	79-4	pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			liver gl	NON-REMARKABLE
muscle	NON-REMARKABLE			
bone	NON-REMARKABLE			
			Cause of Death	tumor death:subcutis
1244	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			subcutis	fibroma,'0'

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

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

GROUP NAME : 200 ppm

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

PAGE : 267

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1244	SCHEDULED	105-7	nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia, '0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia, <1>//hyperplasia, <2>
			pancreas	hyperplasia:acinar cell, <1>
			kidney	chronic nephropathy, <3>//nuclear enlargement:proximal tubule, <1>, straight portion
			urin bladd	NON-REMARKABLE
			pituitary	cyst, <1>//hyperplasia, <2>

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

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

GROUP NAME : 200 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1054)

PAGE : 268

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1244	SCHEDULED	105-7	thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
bone	NON-REMARKABLE			
1245	DEAD	101-6	skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<1>//inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 269

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1245	DEAD	101-6	bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tooth	inflammation,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//tubular necrosis,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 270

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1245	DEAD	101-6	testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	granulation,<1>
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	cataract,<2>//retinal atrophy,<3>
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
				Cause of Death
1246	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE

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



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

GROUP NAME : 200 ppm

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

PAGE : 271

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1246	SCHEDULED	105-7	lymph node	Lymphadenitis,<1>
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin-bladd	NON-REMARKABLE
			pituitary	cyst,<1>//adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1246	SCHEDULED	105-7	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
1247	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
heart	myocardial fibrosis,<1>			

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1247	SCHEDULED	105-7	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semn ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 274

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1247	SCHEDULED	105-7	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1248	SCHEDULED	105-7	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//eosinophilic change:respiratory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
stomach	erosion:glandular stomach,<1>			

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

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

GROUP NAME : 200 ppm

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

PAGE : 275

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1248	SCHEDULED	105-7	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	adenoma,'0'
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

PAGE : 276

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1248	SCHEDULED	105-7	muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1249	HORBUND	99-7	skin/app	epidermal cyst,<1>
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'3'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE

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

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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1249	NORIBUND	99-7	kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'2'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			panc islet	adenoma,'1'
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	degeneration,<1>
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

Cause of Death tumor death:leukemia

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

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

GROUP NAME : 200 ppm

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

PAGE : 278

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1250	DEAD	100-7	skin/app	keratoacanthoma, '1'
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion, <1>, diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis, <1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia, <1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy, <1>
			urin bladd	NON-REMARKABLE

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



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

GROUP NAME : 200 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1250	DEAD	100-7	pituitary	adenoma,'1'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	NON-REMARKABLE
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			Zymbal gl	squamous cell carcinoma,'4'
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

Cause of Death tumor death:Zymbal gland

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1301	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	leukemic cell infiltration,<1>
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spangiasis hepatis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1301	SCHEDULED	105-1	urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	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
1302	NONRIBUND	86-7	skin/app	epidermal cyst,<1>
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			Larynx	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

PAGE : 282

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1302	HORIBUND	86-7	trachea	NON-REMARKABLE
			Lung	NON-REMARKABLE
			bone marrow	Leukemic cell infiltration,<2>
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>//mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>//ulcer:forestomach,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>//Leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>,intermediate area//adenoma,'1'
			thyroid	C-cell adenoma,'1'
			parathyroid	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

PAGE : 283

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1302	HORIBUND	86-7	adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1303	DEAD	98-7	skin/app	NON-REMARKABLE
			subcutis	granular cell tumor,'1'
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1303	DEAD	98-7	lung	congestion,<1>,diffuse
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//spongiosis hepatis,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion//liposarcoma,'4'
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>

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

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

GROUP NAME : 600 ppm

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

PAGE : 285

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1303	DEAD	98-7	testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	inflammation,<1>
			mammary gl	adenoma,'1'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:kidney
1304	DEAD	84-1	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium//thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	granulation,<1>

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1304	DEAD	84-1	lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>//Rathke pouch,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			panc islet	adenoma,'1'
			adrenal	NON-REMARKABLE

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



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

GROUP NAME : 600 ppm

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

PAGE : 287

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1304	DEAD	84-1	testis	atrophy,<1>//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
			eye	NON-REMARKABLE
			liver gl	NON-REMARKABLE
			muscle	necrosis,<1>,with,mineralization
			bone	NON-REMARKABLE
				Cause of Death
1305	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1305	SCHEDULED	105-1	Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	fibrosis,<1>,focal//mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>//thrombus,<1>,left atrium
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//spongiosis hepatis,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:cortical cell,<1>//hyperplasia:medulla,<1>//pheochromocytoma,'0'
			testis	atrophy,<1>//interstitial cell tumor,'0'

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1305	SCHEDULED	105-1	epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1306	SCHEDULED	105-1	bone	NON-REMARKABLE
			skin/app	epidermal cyst,<1>
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1306	SCHEDULED	105-1	heart	myocardial fibrosis,<1>
			artery/aort	arteritis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	basophilic cell focus,<1>//spongiosis hepatis,<1>//hyperplasia,<1>//clear cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	accesory cortical nodule,<1>
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1306	SCHEDULED	105-1	prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			liver gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1307	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium,eosinophilic change:respiratory epithelium, mineralization:pulmonary artery,slight//eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>

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

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

GROUP NAME : 600 ppm

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

PAGE : 292

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
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//herniation,<1>//hyperplasia,<3>//spongiosis hepatis,<1>//basophilic cell focus,<1>// hepatocellular adenoma,'0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1307	SCHEDULED	105-1	brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	osteosclerosis,<1>
1308	SCHEDULED	105-1	skin/app	tricho Lemoma,'0'
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

PAGE : 294

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1308	SCHEDULED	105-1	stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			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

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



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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1308	SCHEDULED	105-1	eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1309	HORBUND	95-2	skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

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

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

GROUP NAME : 600 ppm

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

PAGE : 296

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1309	HORIBUND	95-2	Liver	bile duct hyperplasia,<1>//hyperplasia,<2>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma,'1'
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

PAGE : 297

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1309	HORIBUND	95-2		
			Cause of Death	tumor death: leukemia
1310	SCHEDULED	105-1	skin/app	NON-REMARKABLE
			subcutis	schwannoma:malignant,'0'
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

HISTOLOGICAL FINDINGS (INDIVIDUAL)  
 ALL ANIMALS (0-1054)

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1310	SCHEDULED	105-1	Liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1310	SCHEDULED	105-1	bone	NON-REMARKABLE
1311	NORIBUND	95-2	skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	atrophy,<1>,diffuse
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>//ulcer:forestomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1311	MORTIBUND	95-2	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	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
		Cause of Death	tumor death: leukemia	
1312	SCHEDULED	105-4	skin/app	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1312	SCHEDULED	105-4	subcutis	fibroma, '0'
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis, <2>
			heart	myocardial fibrosis, <1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia, <1>//spongiosis hepatis, <1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy, <4>//nuclear enlargement:proximal tubule, <2>, straight portion
			urin bladd	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1312	SCHEDULED	105-4	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	NON-REMARKABLE
			harder gl	NON-REMARKABLE
muscle	NON-REMARKABLE			
bone	NON-REMARKABLE			
1313	MORBUND	100-1	skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE

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



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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1313	NORIBUND	100-i	Lung	NON-REMARKABLE
			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
			stomach	ulcer:forestomach,<2>//ulcer:glandular stomach,<1>//hyperplasia:forestomach,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	NON-REMARKABLE
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1313	MORIBUND	100-1	testis	interstitial cell tumor, '1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
				Cause of Death
1314	DEAD	81-4	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	congestion,<1>,diffuse
			bone marrow	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1314	DEAD	81-4	lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	fibrosis,<1>,focal//mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<2>//basophilic cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>//nuclear enlargement:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1314	DEAD	81-4	semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hemorrhage,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death: leukemia
1315	DEAD	82-3	skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	Leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1315	DEAD	82-3	spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//leukemic cell infiltration,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<1>
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'1'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			sem in ves	NON-REMARKABLE
			prostate	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1315	DEAD	82-3	mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	necrosis,<1>,with,mineralization
		bone	NON-REMARKABLE	
		Cause of Death	tumor death:leukemia	
1316	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1316	SCHEDULED	105-4	tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

PAGE : 310

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1316	SCHEDULED	105-4	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1317	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium//eosinophilic change:olfactory epithelium,<2>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE

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



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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1317	SCHEDULED	105-4	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1317	SCHEDULED	105-4	muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1318	MORIBUND	100-7	skin/app	NON-REMARKABLE
			subcutis	fibroma,'1'
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	hemorrhage,<1>,focal
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>
			heart	myocardial fibrosis,<1>
			tooth	inflammation,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
stomach	erosion:glandular stomach,<1>//hyperplasia:forestomach,<1>			
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			

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

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

GROUP NAME : 600 ppm

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

PAGE : 313

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1318	MORIBUND	100-7	Liver	bile duct hyperplasia,<1>//hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	nuclear enlargement:proximal tubule,<1>,straight portion//atypical tubular dilatation:proximal tubule,<1>, straight portion//renal cell carcinoma,'3'
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'1'
			thyroid	follicular adenoma,'1'
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semn ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			prep/cli gl	squamous cell carcinoma,'1'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1318	NORIBUND	100-7	muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			adipose	granulation,<1>
			Cause of Death	tumor death:kidney
1319	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
stomach	NON-REMARKABLE			
small intes	NON-REMARKABLE			

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1319	SCHEDULED	105-4	Large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//basophilic cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1319	SCHEDULED	105-4	bone	NON-REMARKABLE
1320	SCHEDULED	105-4	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			Larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			Lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1320	SCHEDULED	105-4	urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
1321	SCHEDULED	105-5	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>//eosinophilic change:olfactory epithelium,<2>
			larynx	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1321	SCHEDULED	105-5	trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	deposit of hemosiderin,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//spongiosis hepatitis,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE

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



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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1321	SCHEDULED	105-5	adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			prep/cli gl	squamous cell carcinoma,'0'
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	retinal atrophy,<2>
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1322	MORBUND	92-1	skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	hemorrhage,<1>,focal//leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1322	HORIBUND	92-1	Lymph node	leukemic cell infiltration,<2>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<1>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	Rathke pouch,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<2>
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1322	MORIBUND	92-1	semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	leukemic cell infiltration,<2>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	hemorrhage:retina,<1>
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death: leukemia
1323	MORIBUND	104-4	skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	atrophy,<1>,diffuse
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1323	NORIBUND	104-4	spleen	fibrosis,<2>,focal//mononuclear cell leukemia,'4'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	hyperplasia:forestomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//spongiosis hepatis,<2>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>//pheochromocytoma,'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. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 600 ppm

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

PAGE : 323

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1323	MORBUND	104-4	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
			adipose	granulation,<1>
			Cause of Death	tumor death:leukemia
1324	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<3>,respiratory epithelium//eosinophilic change:respiratory epithelium,<1>// eosinophilic change:olfactory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1324	SCHEDULED	105-5	spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>
			thyroid	C-cell hyperplasia,<1>
			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. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1324	SCHEDULED	105-5	prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			liver gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1325	MORBUND	104-1	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>//thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			lymph node	leukemic cell infiltration,<2>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
tongue	NON-REMARKABLE			

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1325	MORIBUND	104-1	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//hyperplasia,<1>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<2>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'1'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>

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



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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1325	HORIBUND	104-1	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death: leukemia
1326	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			subcutis	fibroma, '0'
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	granulation, <1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia, '0'
			heart	myocardial fibrosis, <1>
tongue	NON-REMARKABLE			

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

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

GROUP NAME : 600 ppm

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

PAGE : 328

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1326	SCHEDULED	105-5	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hepatocellular adenoma,' 0'
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	cyst,<1>//adenoma,' 0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			panc islet	adenoma,' 0'
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,' 0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

PAGE : 329

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1326	SCHEDULED	105-5	brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1327	HORBUND	97-1	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium//thrombus,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			Lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

PAGE : 330

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1327	HORIBUND	97-i	stomach	hyperplasia:forestomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<1>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	transitional cell papilloma,'1'
			pituitary	cyst,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			panc islet	adenoma,'1'
			adrenal	NON-REMARKABLE
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

PAGE : 331

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1327	HORIBUND	97-1	periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death: leukemia
1328	HORIBUND	104-5	skin/app	NON-REMARKABLE
			nasal cavit	inflammation: foreign body, <2>, respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	leukemic cell infiltration, <2>
			lung	leukemic cell infiltration, <3>
			bone marrow	leukemic cell infiltration, <3>
			lymph node	leukemic cell infiltration, <2>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia, '4'
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1328	HORIBUND	104-5	stomach	erosion:glandular stomach,<1>//hyperplasia:forestomach,<1>//leukemic cell infiltration,<1>
			small intes	leukemic cell infiltration,<1>
			large intes	leukemic cell infiltration,<1>
			liver	spongiosis hepatis,<2>//leukemic cell infiltration,<2>
			pancreas	leukemic cell infiltration,<2>
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>,straight portion
			urin bladd	leukemic cell infiltration,<1>
			pituitary	NON-REMARKABLE
			thyroid	C-cell adenoma,'1'
			parathyroid	NON-REMARKABLE
			adrenal	pheochromocytoma:malignant,'1'
			testis	atrophy,<1>//interstitial cell tumor,'1'
			epididymis	leukemic cell infiltration,<2>
			semin ves	leukemic cell infiltration,<1>
			prostate	leukemic cell infiltration,<2>
			mammary gl	NON-REMARKABLE
			brain	leukemic cell infiltration,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

PAGE : 333

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1328	MORBUND	104-5	Harder gl	leukemic cell infiltration,<2>
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:leukemia
1329	SCHEDULED	105-5	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1329	SCHEDULED	105-5	large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			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	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE

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



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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1329	SCHEDULED	105-5	bone	NON-REMARKABLE
1330	DEAD	99-1	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	metastasis:bone tumor,<2>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<2>
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1330	DEAD	99-1	urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			panc islet	adenocarcinoma,'1'//metastasis:bone tumor,<1>
			adrenal	hyperplasia:medulla,<1>
			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	osteosarcoma,'4'
			adipose	granulation,<1>
			Cause of Death	tumor death:bone

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1331	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	leukemic cell infiltration,<1>
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<2>//spongiosis hepatis,<1>//leukemic cell infiltration,<1>,with,necrosis
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1331	SCHEDULED	105-6	urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
Harder gl	NON-REMARKABLE			
muscle	NON-REMARKABLE			
bone	NON-REMARKABLE			
1332	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1332	SCHEDULED	105-6	trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1332	SCHEDULED	105-6	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	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1333	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	eosinophilic change:respiratory epithelium,<1>
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	bronchiolar-alveolar cell hyperplasia,<2>
			bone marrow	granulation,<1>

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1333	SCHEDULED	105-6	Lymph node	Lymphadenitis,<1>
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	atrophy,<1>
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	follicular hyperplasia,<1>
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'

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

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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1333	SCHEDULED	105-6	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
1334	HORBUND	103-6	bone	NON-REMARKABLE
			skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE

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



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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1334	MORIBUND	103-6	heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	ulcer:forestomach,<1>//ulcer:glandular stomach,<2>//hyperplasia:forestomach,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	vacuolated cell focus,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<2>//pheochromocytoma:malignant,'4'
			testis	atrophy,<1>//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. : 0104  
 ANIMAL : RAT F344  
 REPORT TYPE : A1  
 SEX : MALE

GROUP NAME : 600 ppm

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

PAGE : 344

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ_____	Findings_____
1334	HORIBUND	103-6	brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
			Cause of Death	tumor death:adrenal gland
1335	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<2>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	Leukemic cell infiltration,<1>
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
tongue	NON-REMARKABLE			

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1335	SCHEDULED	105-6	salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	hyperplasia:forestomach,<2>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<1>//leukemic cell infiltration,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	adenoma,'0'
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	focal fatty change:cortex,<1>
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1335	SCHEDULED	105-6	spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1336	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1336	SCHEDULED	105-6	small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	hyaline body,<1>
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1336	SCHEDULED	105-6	Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1337	DEAD	101-4	skin/app	NON-REMARKABLE
			nasal cavit	thrombus,<1>
			larynx	inflammation,<1>
			trachea	NON-REMARKABLE
			lung	congestion,<1>,diffuse
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	fibrosis,<2>,focal//mononuclear cell leukemia,'4'
			heart	thrombus,<1>,left atrium
			tongue	papilloma,'1'
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>
small intes	NON-REMARKABLE			
large intes	NON-REMARKABLE			
Liver	bile duct hyperplasia,<2>//leukemic cell infiltration,<1>,with,necrosis			

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1337	DEAD	101-4	pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<1>,straight portion
			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

Cause of Death tumor death: leukemia

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1338	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	NON-REMARKABLE
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	granulation,<2>
			thymus	NON-REMARKABLE
			spleen	extramedullary hematopoiesis,<1>
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	hyperplasia:forestomach,<1>
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<3>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion//renal cell carcinoma,'0'

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



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

GROUP NAME : 600 ppm

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

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Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1338	SCHEDULED	105-6	urin bladd	NON-REMARKABLE
			pituitary	NON-REMARKABLE
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	cortical adenocarcinoma,'0'
			testis	atrophy,<1>//interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	NON-REMARKABLE
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			harder gl	NON-REMARKABLE
muscle	NON-REMARKABLE			
bone	NON-REMARKABLE			
1339	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1339	SCHEDULED	105-6	trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE
			lymph node	NON-REMARKABLE
			thymus	NON-REMARKABLE
			spleen	NON-REMARKABLE
			heart	NON-REMARKABLE
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	erosion:glandular stomach,<1>//ulcer:forestomach,<2>//keratoacanthoma,' 0'
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			Liver	bile duct hyperplasia,<1>//spongiosis hepatis,<1>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>
			thyroid	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death Information	Time of Examination Week-Day	Organ	Findings
1339	SCHEDULED	105-6	parathyroid	NON-REMARKABLE
			adrenal	NON-REMARKABLE
			testis	interstitial cell tumor,'0'
			epididymis	NON-REMARKABLE
			semin ves	NON-REMARKABLE
			prostate	hyperplasia,<1>
			mammary gl	NON-REMARKABLE
			brain	NON-REMARKABLE
			spinal cord	NON-REMARKABLE
			periph nerv	NON-REMARKABLE
			eye	NON-REMARKABLE
			Harder gl	NON-REMARKABLE
			muscle	NON-REMARKABLE
			bone	NON-REMARKABLE
1340	SCHEDULED	105-6	skin/app	NON-REMARKABLE
			nasal cavit	inflammation:foreign body,<1>,respiratory epithelium
			larynx	NON-REMARKABLE
			trachea	NON-REMARKABLE
			lung	NON-REMARKABLE
			bone marrow	NON-REMARKABLE

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

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

GROUP NAME : 600 ppm

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

Animal ID-NO.	Death information	Time of Examination Week-Day	Organ	Findings
1340	SCHEDULED	105-6	lymph node	Lymphadenitis,<1>
			thymus	NON-REMARKABLE
			spleen	mononuclear cell leukemia,'0'
			heart	myocardial fibrosis,<1>
			tongue	NON-REMARKABLE
			salivary gl	NON-REMARKABLE
			esophagus	NON-REMARKABLE
			stomach	NON-REMARKABLE
			small intes	NON-REMARKABLE
			large intes	NON-REMARKABLE
			liver	bile duct hyperplasia,<1>//hyperplasia,<2>
			pancreas	NON-REMARKABLE
			kidney	chronic nephropathy,<4>//nuclear enlargement:proximal tubule,<2>,straight portion// atypical tubular dilatation:proximal tubule,<1>,straight portion
			urin bladd	NON-REMARKABLE
			pituitary	hyperplasia,<1>//Rathke pouch,<1>
			thyroid	NON-REMARKABLE
			parathyroid	NON-REMARKABLE
			adrenal	hyperplasia:medulla,<1>
			testis	interstitial cell tumor,'0'

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