

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

C Number: C50442

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_501

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Preputial gland		Carcinoma, Nos
Skin	Lower Leg	Squamous Cell Papilloma
Spleen		Lipoidosis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_502

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Phthisis Bulbi

Heart

Retinopathy

Intestine Small

Myocardium Nos

Inflammation, Chronic

Kidney

Peyers Patch

Hyperplasia, Lymphoid

Testis

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_503

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Heart

Kidney

Testis

Myocardium Nos

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_504

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Angiectasis
	Bile Duct	Hyperplasia, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_505

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
Heart	Myocardium Nos	Retinopathy
Pancreas	Islets	Inflammation, Chronic
Pituitary gland		Islet-Cell Carcinoma
Preputial gland		Adenoma, Nos
Prostate		Carcinoma, Nos
Testis		Inflammation, Suppurative
Thyroid		Hyperplasia, Interstitial Cell
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_506

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Kidney

Testis

Thyroid

Cyst, Nos

Retinopathy

Inflammation, Chronic

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_507

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Hemorrhage

Heart

Myocardium Nos

Retinopathy

Kidney

Inflammation, Chronic

Testis

Inflammation, Chronic

Thyroid

Interstitial-Cell Tumor

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_508

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Mammary gland		Fibroadenoma
Prostate		Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Urinary bladder		Transitional-Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_509

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Kidney		Inflammation, Chronic
Liver		Cytoplasmic Change, Nos
Preputial gland		Carcinoma, Nos
Skin	Chest	Cyst, Epidermal Inclusion
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_510

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Pancreas	Islets	Islet-Cell Adenoma
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_511

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
	Mammary Lobule	Hyperplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_512

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Eye

Retinopathy

Kidney

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Thyroid

Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_513

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye	Retinopathy
Kidney	Inflammation, Chronic
Liver	Neoplastic Nodule
Testis	Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_514

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Testis

Thyroid

Myocardium Nos

Pheochromocytoma

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Interstitial-Cell Tumor

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_515

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Testis

Myocardium Nos

Pheochromocytoma

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_516

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Pancreas

Inflammation, Chronic Focal

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_517

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Mammary gland

Pituitary gland

Prostate

Thyroid

Unspecified

Myocardium Nos

Bile Duct

Multiple Organs Nos

Pheochromocytoma

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Hyperplasia, Nos

Cystic Ducts

Carcinoma, Nos

Abscess, Chronic

Inflammation, Suppurative

C-Cell Carcinoma

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_518

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Kidney		Inflammation, Chronic
Lymph node	Mandibular Lymph Node	Lymphangiectasis
Skeletal muscle	Neck	C-Cell Carcinoma, Invasive
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_519

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Skin

Stomach

Testis

Thyroid

Myocardium Nos

Epidermis

Omentum Nos

Pheochromocytoma

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Cytoplasmic Vacuolization

Squamous Cell Carcinoma

Necrosis, Fat

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:33

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_520

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Inflammation, Chronic
Pituitary gland		Adenoma, Nos
Preputial gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_521

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Kidney

Pituitary gland

Skin

Tail

Tail

Pheochromocytoma

Retinopathy

Inflammation, Chronic

Adenoma, Nos

Fibrosis

Hyperkeratosis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_522

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Eye
Intestine Large
Kidney
Pancreas
Testis
Thyroid

Cortex Nos

Intestinal Tract

Acinus

Cytoplasmic Vacuolization
Retinopathy
Mucinous Adenocarcinoma
Inflammation, Chronic
Atrophy, Focal
Interstitial-Cell Tumor
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_523

TRT#: 1

DOSE: 600 PPM

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Eye	Retinopathy
Kidney	Inflammation, Chronic
Lung	Alveolar/Bronchiolar Carcinoma
Pancreas	Periarteritis
Pituitary gland	Adenoma, Nos
Prostate	Inflammation, Chronic Suppurative
Testis	Interstitial-Cell Tumor
Thyroid	C-Cell Adenoma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_524

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Hemorrhage
Eye	Retina	Degeneration, Nos
Kidney		Inflammation, Chronic
Spinal cord		Hemorrhage
Testis		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_525

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Eye

Heart

Kidney

Liver

Testis

Unspecified

Myocardium Nos

Chest

Fibrin Body

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Leukemia, Undifferentiated

Interstitial-Cell Tumor

Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_526

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Hemorrhage

Liver

Retinopathy

Pancreas

Inflammation, Acute/Chronic

Testis

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_527

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Eye

Crystalline Lens

Cataract

Kidney

Retinopathy

Testis

Inflammation, Chronic

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_528

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Liver

Testis

Thyroid

Myocardium Nos

Pheochromocytoma

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Cytoplasmic Change, Nos

Interstitial-Cell Tumor

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_529

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Retinopathy

Kidney

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_530

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Blood vessel

Eye

Heart

Kidney

Pancreas

Testis

Thyroid

Artery Nos

Pelvis

Pheochromocytoma

Periarteritis

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Transitional-Cell Carcinoma

Atrophy, Nos

Interstitial-Cell Tumor

Cyst, Thyroglossal Duct

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_531

TRT#: 1

DOSE: 600 PPM

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Mammary gland		Adenocarcinoma, Nos
Prostate		Inflammation, Chronic Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
		Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_532

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Islets	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Lymphoma, Mixed-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_533

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
		Inflammation, Acute/Chronic
Pancreas		Atrophy, Focal
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_534

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Inflammation, Chronic

Preputial gland

Carcinoma, Nos

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_535

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Ear

Ulcer, Focal

Eye

Retinopathy

Heart

Myocardium Nos

Inflammation, Chronic

Kidney

Inflammation, Chronic

Lung

Inflammation, Interstitial

Testis

Interstitial-Cell Tumor

Thyroid

Cystic Follicles

Pigmentation, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_536

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Eye

Retinopathy

Heart

Myocardium Nos

Inflammation, Chronic

Kidney

Inflammation, Chronic

Liver

Angiectasis

Pancreas

Cytoplasmic Change, Basophilic

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_537

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Inflammation, Chronic
Lung		Alveolar/Bronchiolar Carcinoma
Preputial gland		Adenoma, Nos
		Cystic Ducts
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_538

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Cranial Dura Mater	Carcinoma, Nos, Invasive Hydrocephalus, Nos
Kidney		Pigmentation, Nos
Liver		Cytoplasmic Vacuolization
Lymph node	Mandibular Lymph Node	Hyperplasia, Plasma Cell
Mammary gland		Cystic Ducts
Pituitary gland		Carcinoma, Nos
Prostate		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_539

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Mammary gland		Cystic Ducts
Pancreas		Atrophy, Focal
	Islets	Islet-Cell Adenoma
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated
	Groin	Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_540

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Mammary gland		Cystic Ducts
Prostate		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_541

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Hemorrhage

Heart

Myocardium Nos

Retinopathy

Kidney

Inflammation, Chronic

Pituitary gland

Inflammation, Chronic

Testis

Adenoma, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_542

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Eye
Intestine Small
Kidney
Pancreas
Pituitary gland
Prostate
Testis

Mesentery Nos

Angiectasis
Retinopathy
Necrosis, Fat
Inflammation, Chronic
Atrophy, Nos
Adenoma, Nos
Inflammation, Chronic Suppurative
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_543

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye	Retinopathy
Kidney	Inflammation, Chronic
Testis	Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_544

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Eye

Retinopathy

Heart

Myocardium Nos

Inflammation, Chronic

Intestine Small

Mesentery Nos

Necrosis, Fat

Kidney

Inflammation, Chronic

Liver

Cytoplasmic Vacuolization

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_545

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Hemorrhage

Liver

Bile Duct

Retinopathy

Testis

Hyperplasia, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_546

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Kidney		Inflammation, Chronic
Mammary gland		Cystic Ducts
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Chronic Suppurative
Testis		Hyperplasia, Interstitial Cell
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_547

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Heart

Kidney

Testis

Myocardium Nos

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_548

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Heart

Kidney

Pituitary gland

Testis

Myocardium Nos

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Hyperplasia, Focal

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_549

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Eye

Retinopathy

Heart

Myocardium Nos

Inflammation, Chronic

Kidney

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_550

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 600 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Hemorrhage

Kidney

Retinopathy

Liver

Inflammation, Chronic

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_501

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_502

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal Pheochromocytoma
Eye		Retinopathy
Heart	Myocardium Nos Atrium	Inflammation, Chronic Thrombus, Mural
Kidney		Inflammation, Chronic
Liver		Cytoplasmic Vacuolization
Preputial gland		Adenoma, Nos
Skin		Keratoacanthoma
Testis		Atrophy, Nos
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated
Zymbal gland		Cystadenoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_503

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Inflammation, Chronic

Intestine Large

Colon

Nematodiasis

Preputial gland

Carcinoma, Nos

Unspecified

Multiple Organs Nos

Hematopoiesis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_504

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Heart

Myocardium Nos

Inflammation, Chronic

Auricular Appendage Nos

Thrombus, Mural

Kidney

Inflammation, Chronic

Spleen

Hemangiosarcoma

Testis

Atrophy, Nos

Thyroid

Hyperplasia, Interstitial Cell

Unspecified

Interstitial-Cell Tumor

Cyst, Follicular Nos

Fibroma

Multiple Organs Nos

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_505

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Inflammation, Chronic

Intestine Small

Mesentery Nos

Sarcoma, Nos

Kidney

Inflammation, Chronic

Skin

Abdomen

Cyst, Nos

Testis

Abdomen

Sebaceous Adenoma

Thyroid

Interstitial-Cell Tumor

Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_506

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Lung		Squamous Cell Carcinoma
Pancreas	Islets	Islet-Cell Carcinoma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_507

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney		Inflammation, Chronic
Pituitary gland		Adenoma, Nos
Skin	Nose	Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Foot Nos	Hemangioma
	Foot Nos	Thrombosis, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_508

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Nos
Pancreas		Atrophy, Nos
Preputial gland		Carcinoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_509

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Mammary gland

Cystic Ducts

Pituitary gland

Carcinoma, Nos

Prostate

Inflammation, Suppurative

Testis

Interstitial-Cell Tumor

Thyroid

Cyst, Thyroglossal Duct

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_510

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_511

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Small

Cortex Nos
Myocardium Nos
Peyers Patch
Mesentery Nos

Kidney
Liver
Lung
Preputial gland

Cytoplasmic Vacuolization
Inflammation, Chronic
Hyperplasia, Lymphoid
Periarteritis
Inflammation, Chronic
Focal Cellular Change
Hyperplasia, Adenomatous
Adenoma, Nos
Inflammation, Suppurative
Interstitial-Cell Tumor
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_512

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Cytoplasmic Change, Nos
Mammary gland		Cystic Ducts
Penis	Prepuce Nos	Inflammation, Necrotizing
Pituitary gland		Adenoma, Nos
		Angiectasis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_513

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Cytoplasmic Vacuolization
Mammary gland		Fibroadenoma
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma
Unspecified	Groin	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_514

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Mammary gland		Cystic Ducts
Prostate		Inflammation, Suppurative
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_515

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_516

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Liver		Cytoplasmic Vacuolization
Pituitary gland		Carcinoma, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_517

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Heart

Myocardium Nos

Inflammation, Chronic

Kidney

Inflammation, Chronic

Liver

Leukemia, Undifferentiated

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_518

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Myocardium Nos

Hepatocytes

Bile Duct

Mammary gland

Testis

Thyroid

Unspecified

Multiple Organs Nos

Pheochromocytoma

Inflammation, Chronic

Inflammation, Chronic

Angiectasis

Degeneration, Cystic

Hyperplasia, Nos

Thrombosis, Nos

Hyperplasia, Cystic

Interstitial-Cell Tumor

Hyperplasia, C Cell

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_519

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Gliosis
Liver	Bile Duct	Hyperplasia, Nos
Preputial gland		Carcinoma, Nos
Spleen		Fibrosis, Focal
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_520

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Mesentery Nos	Steatitis
Kidney		Inflammation, Chronic
Lung		Alveolar/Bronchiolar Carcinoma
Preputial gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_521

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Mesentery Nos	Steatitis
Kidney		Inflammation, Chronic
Liver		Cytoplasmic Vacuolization
Pancreas	Islets	Islet-Cell Adenoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Cystic Follicles
Unspecified	Abdominal Wall Nos	Adhesion, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_522

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Prostate		Inflammation, Suppurative
Stomach		Squamous Cell Papilloma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_523

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Acute/Chronic
	Auricular Appendage Nos	Thrombus, Mural
Intestine Small	Mesentery Nos	Lymphocytic Inflammatory Infiltrate
Kidney		Inflammation, Chronic
Liver	Centrilobular	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
		Thrombus, Fibrin
Seminal vesicle		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukocytosis, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_524

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Lymph node

Mammary gland

Pituitary gland

Prostate

Testis

Thyroid

Myocardium Nos

Mandibular Lymph Node

Thrombus, Canalized

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Hyperplasia, Lymphoid

Cystic Ducts

Adenoma, Nos

Inflammation, Suppurative

Interstitial-Cell Tumor

C-Cell Adenoma

Follicular-Cell Carcinoma

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_525

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Astrocytoma
Kidney		Nephrosis, Nos
Lung		Congestion, Nos
Prostate		Inflammation, Suppurative
Urinary bladder	Mucosa	Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_526

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Intestine Small
Kidney
Pituitary gland

Peyers Patch

Hyperplasia, Lymphoid
Inflammation, Chronic
Craniopharyngioma
Cyst, Nos
Interstitial-Cell Tumor
Cyst, Follicular Nos

Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_527

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
	Mesentery Nos	Steatitis
Kidney		Inflammation, Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_528

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos
Medulla

Cytoplasmic Vacuolization
Hyperplasia, Focal
Pheochromocytoma

Heart
Kidney
Testis

Myocardium Nos

Inflammation, Chronic
Inflammation, Chronic
Atrophy, Nos
Hyperplasia, Interstitial Cell
Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma
Cyst, Thyroglossal Duct

Unspecified

Groin

Neurilemoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_529

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Inflammation, Chronic
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Cyst, Thyroglossal Duct
Unspecified	Axilla	Cyst, Hemorrhagic
	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_530

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Liver

Neoplastic Nodule

Spleen

Fibrosis, Focal

Testis

Interstitial-Cell Tumor

Thyroid

Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_531

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Cyst, Nos

Kidney

Pheochromocytoma

Liver

Inflammation, Chronic

Lymph node

Bile Duct

Hyperplasia, Nos

Pancreas

Cervical Lymph Node Nos

Hyperplasia, Reticulum Cell

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_532

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Pancreas

Testis

Myocardium Nos

Cortical Adenoma

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Atrophy, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_533

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_534

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Kidney		Degeneration, Hyaline Inflammation, Chronic Pigmentation, Nos
	Tubule	Inflammation, Suppurative
Prostate		Leukemia, Undifferentiated
Unspecified	Multiple Organs Nos	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_535

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Intestine Small
Kidney
Pancreas
Pituitary gland
Preputial gland
Skin
Testis
Thyroid

Cortex Nos
Peyers Patch

Acinus

Foot And Toe Nos

Cytoplasmic Vacuolization
Hyperplasia, Lymphoid
Inflammation, Chronic
Atrophy, Nos
Adenoma, Nos
Adenoma, Nos
Squamous Cell Papilloma
Interstitial-Cell Tumor
C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_536

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Preputial gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_537

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Testis

Myocardium Nos

Pheochromocytoma

Inflammation, Chronic

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_538

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Intestine Small

Mesentery Nos

Steatitis

Kidney

Inflammation, Chronic

Mammary gland

Cystic Ducts

Pituitary gland

Adenoma, Nos

Skin

Lower Leg

Basal-Cell Carcinoma

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_539

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
		Inflammation, Granulomatous Focal
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_540

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Testis

Unspecified

Myocardium Nos

Chest

Pheochromocytoma

Inflammation, Chronic

Inflammation, Chronic

Leukocytosis, Nos

Interstitial-Cell Tumor

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_541

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Pancreas	Islets	Islet-Cell Carcinoma
Testis		Interstitial-Cell Tumor
Unspecified	Axilla	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_542

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_543

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Brain

Glioma, Nos

Intestine Small

Mesentery Nos

Necrosis, Fat

Liver

Cytoplasmic Vacuolization

Pituitary gland

Adenoma, Nos

Stomach

Submucosa

Edema, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_544

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Kidney

Inflammation, Chronic

Spleen

Hematopoiesis

Testis

Interstitial-Cell Tumor

Unspecified

Axilla

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_545

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Testis

Myocardium Nos

Cortical Adenoma

Inflammation, Chronic

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_546

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Mesentery Nos	Necrosis, Fat
	Mesentery Nos	Steatitis
Kidney		Inflammation, Chronic
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_547

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Pancreas	Islets	Islet-Cell Adenoma
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Back	Trichoepithelioma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_548

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Mesentery Nos	Steatitis
Kidney		Inflammation, Chronic
Liver		Cytoplasmic Vacuolization
Mammary gland		Cystic Ducts
		Hyperplasia, Cystic
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_549

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Ear

Canal

Keratin-Pearl Formation

Heart

Canal

Sebaceous Adenocarcinoma

Intestine Small

Myocardium Nos

Inflammation, Acute/Chronic

Mesentery Nos

Inflammation, Chronic

Mesentery Nos

Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_550

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_501

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Eye

Heart

Kidney

Testis

Myocardium Nos

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_502

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Retinopathy

Kidney

Inflammation, Chronic

Pancreas

Islets

Islet-Cell Adenoma

Skin

Nose

Inflammation, Chronic Focal

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_503

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye	Appendage	Inflammation, Chronic Focal Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_504

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Leukemia, Undifferentiated
Preputial gland		Adenoma, Nos
		Inflammation, Chronic Suppurative
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_505

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Kidney		Inflammation, Chronic
Lung		Inflammation, Pyogranulomatous
Preputial gland		Adenoma, Nos
		Cystic Ducts
Skeletal muscle	Neck	Follicular-Cell Carcinoma, Invasive
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_506

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Hemorrhage

Intestine Small

Mesentery Nos

Retinopathy

Kidney

Necrosis, Fat

Skin

Inflammation, Chronic

Testis

Scrotum

Ulcer, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_507

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Mammary gland

Testis

Myocardium Nos

Mammary Lobule

Pheochromocytoma

Inflammation, Chronic

Inflammation, Chronic

Hyperplasia, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_508

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Eye

Hemorrhage

Kidney

Retinopathy

Lung

Inflammation, Chronic

Testis

Alveolar/Bronchiolar Adenoma

Thyroid

Hyperplasia, Alveolar Epithelium

Interstitial-Cell Tumor

C-Cell Adenoma

Inflammation, Chronic Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_509

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye

Retinopathy

Kidney

Tubule

Pigmentation, Nos

Liver

Bile Duct

Hyperplasia, Nos

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_510

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Testis

Unspecified

Myocardium Nos

Multiple Organs Nos

Pheochromocytoma

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Interstitial-Cell Tumor

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_511

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_512

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Unspecified

Abdomen

Cyst, Epidermal Inclusion

Neurilemoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_513

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Eye

Retinopathy

Heart

Myocardium Nos

Inflammation, Chronic

Kidney

Inflammation, Chronic

Liver

Leukemia, Undifferentiated

Mammary gland

Cystic Ducts

Pituitary gland

Adenoma, Nos

Prostate

Cyst, Nos

Unspecified

Chest

Inflammation, Suppurative

Keratoacanthoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_514

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Mammary gland		Cystic Ducts
Pancreas	Islets	Islet-Cell Adenoma
	Islets	Islet-Cell Carcinoma
Pituitary gland		Adenoma, Nos
		Cyst, Hemorrhagic
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_515

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
		Leukocytosis, Nos
Lung		Carcinoma, Nos
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Chest	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_516

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_517

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Pituitary gland

Thyroid

Cytoplasmic Vacuolization

Inflammation, Chronic

Carcinoma, Nos

Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_518

TRT#: 3

DOSE: 0

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Mammary gland

Pituitary gland

Preputial gland

Spleen

Testis

Myocardium Nos

Pheochromocytoma

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Cystic Ducts

Adenoma, Nos

Carcinoma, Nos

Hematopoiesis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_519

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Crystalline Lens

Cataract

Heart

Myocardium Nos

Retinopathy

Kidney

Inflammation, Chronic

Testis

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_520

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_521

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Hemorrhage

Heart

Myocardium Nos

Retinopathy

Kidney

Inflammation, Chronic

Testis

Inflammation, Chronic

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_522

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Eye

Heart

Kidney

Mammary gland

Pituitary gland

Preputial gland

Prostate

Spleen

Thyroid

Myocardium Nos

Atrophy, Nos

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Cystic Ducts

Adenoma, Nos

Adenoma, Nos

Inflammation, Suppurative

Fibrosis, Focal

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_523

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Pelvis	Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_524

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Leukemia, Undifferentiated
Spleen		Congestion, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_525

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Heart

Kidney

Spleen

Testis

Myocardium Nos

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Sarcoma, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_526

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Leukocytosis, Nos
Preputial gland		Carcinoma, Nos
Skin	Back	Inflammation, Suppurative
Testis		Squamous Cell Papilloma
Thyroid		Interstitial-Cell Tumor
		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_527

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Intestine Large	Colon	Inflammation, Chronic Focal
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Inflammation, Chronic
Mammary gland		Cystic Ducts
Peritoneum		Adhesion, Nos
Pituitary gland		Adenoma, Nos
Stomach	Omentum Nos	Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_528

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Heart

Kidney

Testis

Myocardium Nos

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_529

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Penis	Prepuce Nos	Inflammation, Acute/Chronic
Thyroid		Inflammation, Acute/Chronic
Urinary bladder	Submucosa	Cyst, Ultimobranchial
		Inflammation, Acute/Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_530

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye

Retinopathy

Kidney

Inflammation, Chronic

Pituitary gland

Adenoma, Nos

Prostate

Inflammation, Suppurative

Unspecified

Multiple Organs Nos

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_531

TRT#: 3

DOSE: 0

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Intestine Large

Mammary gland

Prostate

Testis

Submucosa, Colon

Pheochromocytoma

Retinopathy

Inflammation, Chronic Focal

Fibroadenoma

Inflammation, Suppurative

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_532

TRT#: 3

DOSE: 0

SEX: Male

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney

Lung

Testis

Inflammation, Chronic

Congestion, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_533

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Small

Kidney

Liver

Pituitary gland

Prostate

Testis

Thyroid

Myocardium Nos

Mesentery Nos

Cortical Adenoma

Inflammation, Chronic

Necrosis, Fat

Inflammation, Chronic

Inflammation, Acute/Chronic

Adenoma, Nos

Inflammation, Suppurative

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_534

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Inflammation, Chronic

Intestine Small

Peyers Patch

Hyperplasia, Lymphoid

Kidney

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_535

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Small
Kidney
Skin
Testis

Cortex Nos
Myocardium Nos
Peyers Patch

Axilla

Cyst, Nos
Inflammation, Chronic
Hyperplasia, Lymphoid
Inflammation, Chronic
Cyst, Epidermal Inclusion
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_536

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Skin

Testis

Myocardium Nos

Epidermis

Pheochromocytoma

Inflammation, Chronic

Inflammation, Chronic

Hyperplasia, Focal

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_537

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortical Adenoma

Kidney

Pheochromocytoma

Liver

Bile Duct

Inflammation, Chronic

Mammary gland

Hyperplasia, Nos

Pituitary gland

Cystic Ducts

Prostate

Adenoma, Nos

Salivary gland

Inflammation, Suppurative

Skin

Abdomen

Inflammation, Nos

Spleen

Thrombus, Fibrin

Unspecified

Multiple Organs Nos

Cyst, Epidermal Inclusion

Multiple Organs Nos

Fibrosis

Inflammation, Necrotizing

Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_538

TRT#: 3

DOSE: 0

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney
Preputial gland
Spleen
Testis

Inflammation, Chronic
Carcinoma, Nos
Hematopoiesis
Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_539

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Neoplastic Nodule
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_540

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye		Retinopathy
Heart	Myocardium Nos	Inflammation, Chronic
Intestine Large	Colon	Nematodiasis
Kidney		Inflammation, Chronic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_541

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Brain		Carcinoma, Nos, Invasive
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Lung		Alveolar/Bronchiolar Carcinoma
Pituitary gland		Carcinoma, Nos
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_542

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Inflammation, Chronic
Liver		Leukocytosis, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Chest	Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_543

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
	Mesentery Nos	Periarteritis
Kidney		Inflammation, Chronic
Parathyroid gland		Hyperplasia, Focal
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_544

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
		Pigmentation, Nos
Prostate		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Undifferentiated

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_545

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Eye

Retinopathy

Kidney

Inflammation, Chronic

Mammary gland

Cystic Ducts

Pituitary gland

Adenoma, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_546

TRT#: 3

DOSE: 0

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Eye

Heart

Kidney

Preputial gland

Testis

Myocardium Nos

Necrosis, Ischemic

Retinopathy

Inflammation, Chronic

Inflammation, Chronic

Carcinoma, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_547

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Pituitary gland

Prostate

Testis

Myocardium Nos

Pheochromocytoma

Inflammation, Chronic

Inflammation, Chronic

Cyst, Hemorrhagic

Inflammation, Suppurative

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C50442

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ziram

CAS Number: 137-30-4

Date Report Requested: 10/26/2014

Time Report Requested: 14:19:34

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_548

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Inflammation, Chronic
Liver	Centrilobular	Cytoplasmic Vacuolization
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

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Lab: NA

ANIMAL ID: 3_549

TRT#: 3

DOSE: 0

SEX: Male

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Eye

Kidney

Liver

Testis

Thyroid

Retinopathy

Inflammation, Chronic

Focal Cellular Change

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

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DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Retinopathy

Intestine Small

Mesentery Nos

Necrosis, Fat

Kidney

Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE