

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

C Number: C55276

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Female

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_001

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Ovary

Myocardium Nos

Degeneration, Nos

Pancreas

Follicle

Cyst, Multiple

Spleen

Acinus

Atrophy, Focal

Unspecified

Red Pulp

Congestion, Acute

Uterus

Mediastinum Nos

Inflammation, Acute Diffuse

Zymbal gland

Endometrial Stromal Polyp

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_002

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Liver

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Histiocytosis

Mammary gland

Mammary Acinus

Hyperplasia, Cystic

Stomach

Fundus

Necrosis, Focal

Thyroid

Cyst, Embryonal Duct

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_003

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland
Liver

Zona Fasciculata
Hardarian Gland

Focal Cellular Change
Tissue Examined
Cytoplasmic Change, Basophilic

Pituitary gland
Skin

Bile Duct
Anterior Pituitary
Sebaceous Gland

Hyperplasia, Focal
Cyst, Embryonal Duct
Hyperplasia, Focal

Spleen
Thyroid

Lip Nos
Follicles

Squamous Cell Papilloma
Depletion, Lymphoid

Uterus

Endometrium

Hyperplasia, C Cell

Zymbal gland

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_004

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland
Liver

Hardarian Gland

Tissue Examined
Cytoplasmic Change, Basophilic
Inflammation, Granulomatous Focal
Inflammation, Granulomatous Focal

Lung
Mammary gland
Ovary

Mammary Acinus

Hyperplasia, Cystic
Cyst, Parovarian

Pituitary gland
Thyroid

Adenoma, Nos
C-Cell Adenoma

Unspecified
Uterus

Multiple Organs Nos

Leukemia, Mononuclear Cell
Endometrial Stromal Polyp

Zymbal gland

Endometrium

Hyperplasia, Cystic
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_005

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland
Heart
Liver

Harderian Gland
Myocardium Nos

Tissue Examined
Degeneration, Nos
Hematopoiesis
Inflammation, Acute Focal
Inflammation, Granulomatous Focal

Lymph node
Oral mucosa

Mandibular Lymph Node
Palate Nos
Palate Nos

Histiocytosis
Acanthosis
Hyperkeratosis
Atrophy, Focal
Hyperplasia, Focal

Pancreas
Pituitary gland
Stomach

Acinus
Pituitary Cell
Fundus

Necrosis, Focal
Squamous Cell Carcinoma

Tongue

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_006

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Angiectasis

Lymph node

Bile Duct

Hyperplasia, Focal

Mandibular Lymph Node

Histiocytosis

Thymic Lymph Node

Pigmentation, Nos

Mammary gland

Mammary Acinus

Hyperplasia, Cystic

Ovary

Cyst, Follicular Nos

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Adenoma, Nos

Skin

Back

Acanthosis

Unspecified

Back

Hyperkeratosis

Uterus

Back

Eosinophilic Leukocytic Infiltrate

Zymbal gland

Endometrium

Endometrial Stromal Polyp

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_007

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood vessel
Harderian gland
Kidney
Liver
Lymph node
Pituitary gland
Spleen
Uterus
Zymbal gland

Pulmonary Artery Nos
Hardarian Gland

Centrilobular
Mandibular Lymph Node

Red Pulp
Endometrium

Mineralization
Tissue Examined
Nephropathy
Necrosis, Focal
Inflammation, Granulomatous Focal
Adenoma, Nos
Hematopoiesis
Hyperplasia, Cystic
Carcinoma, Nos
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_008

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Intestine Large

Colon

Parasitism

Kidney

Nephropathy

Liver

Hematopoiesis

Lymph node

Mandibular Lymph Node

Histiocytosis

Oral mucosa

Palate Nos

Squamous Cell Papilloma

Pituitary gland

Pituitary Cell

Hyperplasia, Focal

Stomach

Cardiac Stomach

Squamous Cell Papilloma

Uterus

Endometrium

Adenocarcinoma, Nos

Zymbal gland

Endometrium

Hyperplasia, Cystic

Carcinoma, Nos

Dilatation, Ducts

Metaplasia, Squamous

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_009

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Congestion, Nos
Bone marrow		Hyperplasia, Granulocytic
Clitoral gland		Hyperplasia, Cystic
Eye	Retina	Degeneration, Nos
	Cornea	Inflammation, Chronic Diffuse
Harderian gland	Hardarian Gland	Hyperplasia, Nos
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver	Periportal	Cytoplasmic Vacuolization
Lung		Carcinoma, Nos, Metastatic
Oral mucosa	Palate Nos	Acanthosis
	Palate Nos	Hyperkeratosis
Ovary		Cyst, Parovarian
Spleen	Red Pulp	Hematopoiesis
Thymus		Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Zymbal gland		Carcinoma, Nos
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_010

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Kidney

Bacterial Septicemia

Lung

Bacterial Septicemia

Pancreas

Acinus

Atrophy, Focal

Unspecified

Mediastinum Nos

Inflammation, Acute

Uterus

Parovarian

Abscess, Nos

Zymbal gland

Carcinoma, Nos

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_011

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Clitoral gland		Carcinoma, Nos
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Tubule	Degeneration, Nos
	Tubule	Mineralization
Lung		Carcinoma, Nos, Metastatic
Spleen	Red Pulp	Hematopoiesis
Thyroid		Hyperplasia, C Cell
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_012

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Not Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Skin

Face

Squamous Cell Carcinoma

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_013

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Lung

Hardarian Gland

Tissue Examined

Ovary

Inflammation, Acute Diffuse

Spleen

Inflammation, Acute Diffuse

Thyroid

Red Pulp

Depletion, Lymphoid

Uterus

Pigmentation, Nos

Zymbal gland

Hyperplasia, C Cell

Endometrial Stromal Polyp

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_014

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Kidney

Hardarian Gland

Tissue Examined

Liver

Nephropathy

Mammary gland

Inflammation, Granulomatous Focal

Oral mucosa

Mammary Acinus

Fibroadenoma

Zymbal gland

Palate Nos

Hyperplasia, Cystic

Squamous Cell Carcinoma

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_015

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland
Liver
Lymph node
Pancreas
Pituitary gland
Spleen
Stomach
Tongue
Uterus
Zymbal gland

Harderian Gland
Periportal
Mandibular Lymph Node
Acinus
Anterior Pituitary
Red Pulp
Fundus

Endometrium

Tissue Examined
Cytoplasmic Vacuolization
Histiocytosis
Atrophy, Focal
Focal Cellular Change
Pigmentation, Nos
Necrosis, Focal
Squamous Cell Carcinoma
Hyperplasia, Cystic
Dilatation, Ducts
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_016

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Not Examined

Zymbal gland

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_017

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Eye
Harderian gland
Liver

Cornea
Harderian Gland
Bile Duct

Inflammation, Acute Focal
Tissue Examined
Hyperplasia, Focal
Inflammation, Acute/Chronic
Inflammation, Granulomatous
Carcinoma, Nos
Tissue Examined

Unspecified
Zymbal gland

Neck

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_018

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Cytoplasmic Change, Basophilic

Lung

Inflammation, Granulomatous Focal

Mammary gland

Mammary Acinus

Hyperplasia, Cystic

Pituitary gland

Adenoma, Nos

Skin

Lip Nos

Hyperplasia, Focal

Spleen

Lip Nos

Squamous Cell Papilloma

Thyroid

Follicles

Depletion, Lymphoid

Uterus

Hyperplasia, C Cell

Zymbal gland

Endometrium

Endometrial Stromal Polyp

Hyperplasia, Cystic

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_019

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Lymph node

Mandibular Lymph Node

Histiocytosis

Thyroid

Hyperplasia, C Cell

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Carcinoma, Nos

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_020

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Lymph node

Mandibular Lymph Node

Histiocytosis

Pancreas

Acinus

Atrophy, Focal

Stomach

Fundus

Dilatation, Nos

Uterus

Dilatation, Nos

Endometrial Stromal Polyp

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_021

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Spleen	Red Pulp	Hematopoiesis
Thyroid		C-Cell Carcinoma
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_022

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Lung

Aspiration, Foreign Body

Oral mucosa

Palate Nos

Squamous Cell Papilloma

Tongue

Squamous Cell Carcinoma

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_023

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Lymph node

Mandibular Lymph Node

Histiocytosis

Thymic Lymph Node

Histiocytosis

Pancreas

Acinus

Atrophy, Focal

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Carcinoma, Nos

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_024

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland
Heart
Intestine Large
Kidney
Liver

Harderian Gland
Myocardium Nos
Colon

Tissue Examined
Degeneration, Nos
Parasitism
Nephropathy
Cytoplasmic Change, Basophilic
Inflammation, Granulomatous Focal

Lymph node
Mammary gland
Spleen
Uterus

Mandibular Lymph Node

Histiocytosis
Fibroadenoma
Depletion, Lymphoid
Endometrial Stromal Polyp

Zymbal gland

Endometrium

Hyperplasia, Cystic
Metaplasia, Squamous
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_025

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Hyperplasia, Focal

Heart

Harderian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Skin

Face

Cytoplasmic Change, Basophilic

Spleen

Red Pulp

Inflammation, Suppurative

Stomach

Fundus

Hematopoiesis

Uterus

Endometrium

Necrosis, Focal

Zymbal gland

Endometrial Stromal Polyp

Hyperplasia, Cystic

Carcinoma, Nos

Cystic Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_026

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Inflammation, Acute/Chronic

Lymph node

Mandibular Lymph Node

Histiocytosis

Mammary gland

Mammary Acinus

Hyperplasia, Cystic

Pituitary gland

Adenoma, Nos

Spleen

Follicles

Depletion, Lymphoid

Uterus

Endometrial Stromal Polyp

Zymbal gland

Endometrium

Hyperplasia, Cystic

Carcinoma, Nos

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_027

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Lung

Aspiration, Foreign Body

Zymbal gland

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_028

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain
Harderian gland
Lymph node

Medulla Oblongata Nos
Harderian Gland
Mandibular Lymph Node
Mandibular Lymph Node
Mammary Acinus

Mammary gland
Pituitary gland
Spleen
Uterus
Zymbal gland

Follicles
Endometrium

Hemorrhage
Tissue Examined
Histiocytosis
Pigmentation, Nos
Hyperplasia, Cystic
Adenoma, Nos
Depletion, Lymphoid
Hyperplasia, Cystic
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_029

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Kidney

Hardarian Gland

Tissue Examined

Lung

Tubule

Degeneration, Nos

Spleen

Pleura Nos

Congestion, Nos

Thymus

Red Pulp

Inflammation, Acute/Chronic

Unspecified

Cortex

Depletion, Lymphoid

Zymbal gland

Mediastinum Nos

Pigmentation, Nos

Mediastinum Nos

Depletion, Lymphoid

Foreign Body, Nos

Inflammation, Acute/Chronic

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_030

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Clear-Cell Change
Bone marrow		Hyperplasia, Granulocytic
Eye	Retina	Degeneration, Nos
	Anterior Chamber	Hemorrhage
	Cornea	Inflammation, Acute Focal
Harderian gland	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pancreas	Islets	Cell-Size Alteration
Spleen	Follicles	Depletion, Lymphoid
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Carcinoma, Nos
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_031

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Tissue Examined
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Stomach	Cardiac Stomach	Acanthosis
	Submucosa	Edema, Nos
	Cardiac Stomach	Hyperkeratosis
	Submucosa	Inflammation, Acute Focal
	Fundus	Necrosis, Focal
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Carcinoma, Nos
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_032

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lung		Inflammation, Granulomatous Focal
Ovary		Atrophy, Senile
Pituitary gland	Anterior Pituitary	Cyst, Nos
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_033

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Oral mucosa	Palate Nos	Acanthosis
	Palate Nos	Hyperkeratosis
Pancreas	Acinus	Atrophy, Diffuse
Pituitary gland	Pituitary Cell	Hyperplasia, Focal
Stomach	Fundus	Necrosis, Focal
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_034

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Zona Fasciculata

Cyst, Hemorrhagic

Brain

Cerebrum

Astrocytoma

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Cytoplasmic Change, Basophilic

Lung

Hyperplasia, Alveolar Epithelium

Pneumonia, Interstitial Chronic

Lymph node

Mandibular Lymph Node

Histiocytosis

Pancreas

Acinus

Atrophy, Focal

Spleen

Follicles

Depletion, Lymphoid

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_035

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Lipoidosis

Bone marrow

Hyperplasia, Granulocytic

Harderian gland

Harderian Gland

Tissue Examined

Heart

Right Ventricle Nos

Carcinoma, Nos, Metastatic

Lung

Carcinoma, Nos, Metastatic

Oral mucosa

Palate Nos

Squamous Cell Papilloma

Pituitary gland

Anterior Pituitary

Cyst, Embryonal Duct

Zymbal gland

Carcinoma, Nos

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_036

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Cytoplasmic Change, Basophilic

Pituitary gland

Anterior Pituitary

Cyst, Hemorrhagic

Thyroid

Hyperplasia, C Cell

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_037

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cytoplasmic Vacuolization
Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Carcinoma, Nos
		Cystic Ducts
		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_038

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland

Zona Fasciculata
Harderian Gland
Harderian Gland

Cytoplasmic Vacuolization
Metaplasia, Squamous
Tissue Examined

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Lung

Inflammation, Granulomatous Focal

Thyroid

Follicle

Hyperplasia, Cystic

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Uterus

Endometrium

Adenocarcinoma, Nos

Endometrial Stromal Polyp

Zymbal gland

Endometrium

Hyperplasia, Cystic

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_039

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cytoplasmic Vacuolization
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Lymph node	Mandibular Lymph Node	Histiocytosis
Ovary		Cyst, Follicular Nos
Pituitary gland	Anterior Pituitary	Cyst, Embryonal Duct
Spleen	Red Pulp	Hematopoiesis
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic
	Endometrium	Hyperplasia, Focal
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_040

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Adenoma, Nos

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_041

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland

Harderian Gland
Harderian Gland

Pheochromocytoma
Inflammation, Chronic
Tissue Examined

Lung

Congestion, Acute
Edema, Nos

Lymph node
Pituitary gland

Alveoli
Mandibular Lymph Node

Hemorrhage
Plasmacytosis

Unspecified

Pituitary Cell

Hyperplasia, Focal

Uterus

Axilla

Fibroma

Zymbal gland

Endometrium

Hyperplasia, Cystic

Dilatation, Ducts

Hyperplasia, Focal

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_042

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cyst, Nos
	Zona Fasciculata	Cytoplasmic Vacuolization
Bone	Femur	Osteosclerosis
Bone marrow		Fibrosis, Myelo
Clitoral gland		Carcinoma, Nos
Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
	Cornea	Hyperplasia, Epithelial
Harderian gland	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Nos
		Nephropathy
Lymph node	Mandibular Lymph Node	Histiocytosis
Pancreas	Acinus	Atrophy, Focal
Spleen		Fibrosis, Focal
	Red Pulp	Hematopoiesis
Thyroid		C-Cell Carcinoma
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_043

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Kidney

Nephropathy

Liver

Clear-Cell Change

Lymph node

Mandibular Lymph Node

Histiocytosis

Mammary gland

Fibroadenoma

Ovary

Cyst, Follicular Nos

Pituitary gland

Pituitary Cell

Hyperplasia, Focal

Spleen

Follicles

Depletion, Lymphoid

Tongue

Squamous Cell Carcinoma

Uterus

Endometrium

Endometrial Stromal Polyp

Zymbal gland

Hyperplasia, Cystic

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_044

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Ovary		Cyst, Parovarian
Stomach	Fundus	Necrosis, Focal
Unspecified	Adipose Tissue	Inflammation, Granulomatous Focal
	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_045

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Clitoral gland		Carcinoma, Nos
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver	Bile Duct	Hyperplasia, Focal
Ovary		Cyst, Parovarian
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_046

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Mammary gland

Hardarian Gland

Tissue Examined

Pituitary gland

Mammary Acinus

Fibroadenoma

Unspecified

Multiple Organs Nos

Hyperplasia, Cystic

Zymbal gland

Adenoma, Nos

Leukemia, Mononuclear Cell

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_047

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Liver

Hepatocytes

Clear-Cell Change

Lymph node

Mesenteric Lymph Node

Inflammation, Chronic Focal

Pituitary gland

Pituitary Cell

Hyperplasia, Focal

Thymus

Medulla

Cyst, Embryonal Duct

Zymbal gland

Medulla

Depletion, Lymphoid

Metaplasia, Squamous

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_048

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Mammary gland

Mammary Acinus

Hyperplasia, Cystic

Pituitary gland

Adenoma, Nos

Stomach

Submucosa

Edema, Nos

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_049

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Reticulum Cell
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Ovary		Cyst, Parovarian
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Pituitary Cell	Hyperplasia, Focal
Spleen	Red Pulp	Hematopoiesis
Stomach	Fundus	Necrosis, Focal
Uterus		Dilatation, Nos
	Endometrium	Endometrial Stromal Polyp
		Hyperplasia, Cystic
Zymbal gland		Cystic Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_050

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Harderian gland

Heart

Liver

Stomach

Thyroid

Uterus

Zymbal gland

Harderian Gland

Myocardium Nos

Bile Duct

Fundus

Endometrium

Cortical Adenoma

Tissue Examined

Degeneration, Nos

Cytoplasmic Change, Basophilic

Hyperplasia, Focal

Necrosis, Focal

Hyperplasia, C Cell

Endometrial Stromal Polyp

Hyperplasia, Cystic

Carcinoma, Nos

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_001

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland

Medulla
Harderian Gland
Harderian Gland

Hyperplasia, Focal
Inflammation, Chronic
Tissue Examined
Nephropathy
Cytoplasmic Change, Basophilic

Kidney
Liver

Bile Duct

Hyperplasia, Focal
Neoplastic Nodule
Adenoma, Nos

Mammary gland
Pituitary gland

Anterior Pituitary
Pituitary Cell

Cyst, Nos
Hyperplasia, Focal

Stomach
Thyroid
Uterus

Fundus

Necrosis, Focal
C-Cell Carcinoma
Dilatation, Nos
Endometrial Stromal Polyp

Zymbal gland

Endometrium

Hyperplasia, Cystic
Dilatation, Ducts
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_002

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Zona Fasciculata

Hyperplasia, Focal

Eye

Crystalline Lens

Cataract

Retina

Degeneration, Nos

Harderian gland

Hardarian Gland

Inflammation, Chronic

Hardarian Gland

Tissue Examined

Intestine Large

Colon

Adenomatous Polyp, Nos

Liver

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Histiocytosis

Thyroid

Cyst, Follicular Nos

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_003

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland

Zona Fasciculata
Hardarian Gland
Hardarian Gland

Hyperplasia, Focal
Inflammation, Chronic
Tissue Examined

Intestine Small
Liver

Jejunum
Bile Duct

Leiomyosarcoma
Cytoplasmic Change, Basophilic
Hyperplasia, Focal
Inflammation, Granulomatous Focal

Lung
Pituitary gland
Uterus
Zymbal gland

Anterior Pituitary
Endometrium

Inflammation, Granulomatous Focal
Cyst, Multiple
Hyperplasia, Cystic
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Lung

Cytoplasmic Change, Basophilic

Lymph node

Pancreatic Lymph Node

Congestion, Acute

Mammary gland

Hemorrhage

Pancreas

Mammary Acinus

Fibroadenoma

Pituitary gland

Acinus

Hyperplasia, Cystic

Zymbal gland

Atrophy, Focal

Adenoma, Nos

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_005

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Zona Fasciculata	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Pancreas	Islets	Islet-Cell Adenoma
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_006

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Hyperplasia, Nos

Hardarian Gland

Inflammation, Chronic

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Cytoplasmic Change, Basophilic

Pituitary gland

Pituitary Cell

Hyperplasia, Focal

Zymbal gland

Cystic Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_007

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Tissue Examined
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Pituitary gland	Pituitary Cell	Hyperplasia, Focal
Stomach	Fundus	Necrosis, Focal
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_008

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland
Liver

Hardarian Gland

Tissue Examined
Cytoplasmic Change, Basophilic
Inflammation, Granulomatous Focal

Ovary
Stomach
Zymbal gland

Fundus

Cyst, Parovarian
Necrosis, Focal
Dilatation, Ducts
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_009

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Nephropathy

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Neoplastic Nodule

Lymph node

Mandibular Lymph Node

Histiocytosis

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Endometrium

Hyperplasia, Diffuse

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_010

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Clear-Cell Change
	Zona Fasciculata	Hyperplasia, Focal
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Hyperplasia, Alveolar Epithelium
		Perivascularitis
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland		Fibroadenoma
Pancreas	Islets	Hyperplasia, Focal
Pituitary gland		Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
Zymbal gland		Carcinoma, Nos
		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_011

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Harderian gland

Zona Fasciculata

Hyperplasia, Nos

Heart

Hardarian Gland

Inflammation, Chronic

Kidney

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Lung

Uterus

Zymbal gland

Endometrium

Nephropathy

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Pneumonia, Interstitial Chronic

Hyperplasia, Cystic

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_012

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Carcinoma, Nos, Invasive
Harderian gland	Harderian Gland	Porphyrin
	Harderian Gland	Tissue Examined
Kidney	Pelvis	Mineralization
Liver	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Acute/Chronic
Pituitary gland		Carcinoma, Nos, Invasive
		Hyperplasia, Epithelial
Zymbal gland		Carcinoma, Nos
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_013

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland

Zona Fasciculata
Hardarian Gland
Hardarian Gland

Hyperplasia, Focal
Inflammation, Chronic
Tissue Examined

Kidney
Liver

Nephropathy
Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal
Inflammation, Granulomatous Focal

Lung
Lymph node
Mammary gland

Hyperplasia, Alveolar Epithelium

Mandibular Lymph Node

Histiocytosis
Fibroadenoma

Pituitary gland
Uterus
Zymbal gland

Galactocele

Endometrium

Adenoma, Nos

Hyperplasia, Cystic

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_014

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cytoplasmic Vacuolization
	Zona Fasciculata	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Submucosa, Rectum	Hemorrhage
Kidney		Nephropathy
Liver		Inflammation, Granulomatous Focal
		Neoplastic Nodule
Lung		Pneumonia, Interstitial Chronic
Mammary gland		Fibroadenoma
		Galactocele
	Mammary Acinus	Hyperplasia, Cystic
Ovary		Cyst, Follicular Nos
Pituitary gland		Adenoma, Nos
Stomach	Fundus	Necrosis, Focal
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_015

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Harderian gland	Harderian Gland	Tissue Examined
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Histiocytosis
	Pancreatic Lymph Node	Histiocytosis
Mammary gland		Fibroadenoma
	Mammary Acinus	Hyperplasia, Cystic
Oral mucosa	Palate Nos	Squamous Cell Papilloma
Ovary		Cyst, Follicular Nos
Pituitary gland	Pituitary Cell	Hyperplasia, Focal
Stomach	Fundus	Necrosis, Focal
Thyroid		C-Cell Adenoma
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_016

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain	Medulla Oblongata Nos	Hemorrhage
Harderian gland	Harderian Gland	Tissue Examined
Kidney	Tubule	Pigmentation, Nos
Oral mucosa	Palate Nos	Acanthosis
	Palate Nos	Hyperkeratosis
Stomach	Fundus	Ulcer, Acute
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Dilatation, Nos
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_017

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Histiocytosis
Ovary		Inflammation, Chronic Focal
Stomach	Fundus	Necrosis, Focal
Uterus	Endometrium	Carcinoma, Nos
		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Focal
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_018

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Bone marrow		Aplasia, Hematopoietic
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
Salivary gland		Atrophy, Focal
	Parotid Duct	Hyperplasia, Focal
		Inflammation, Acute Focal
Spleen	Follicles	Depletion, Lymphoid
Stomach	Fundus	Necrosis, Focal
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Carcinoma, Nos
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_019

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Oral mucosa	Palate Nos	Squamous Cell Carcinoma
Pituitary gland		Adenoma, Nos
Spleen	Follicles	Depletion, Lymphoid
	Red Pulp	Pigmentation, Nos
Thyroid	Follicle	Hyperplasia, Cystic
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_020

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Tissue Not Examined
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Ovary		Cyst, Parovarian
Skin	Back	Acanthosis
	Back	Hyperkeratosis
Stomach	Fundus	Necrosis, Focal
Thyroid		C-Cell Adenoma
Tongue		Squamous Cell Papilloma
Uterus		Dilatation, Nos
	Endometrium	Endometrial Stromal Polyp
		Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_021

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Bone	Femur	Osteosclerosis
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland		Fibroadenoma
	Mammary Acinus	Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Stomach	Fundus	Necrosis, Focal
Uterus	Endometrium	Carcinoma, Nos
	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_022

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Pituitary gland

Pituitary Cell

Hyperplasia, Focal

Thyroid

C-Cell Carcinoma

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_023

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata Zona Fasciculata Medulla	Clear-Cell Change Degeneration, Cystic Hyperplasia, Focal
Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Hardarian Gland Hardarian Gland	Inflammation, Chronic Tissue Examined
Kidney		Nephropathy
Mammary gland		Fibroadenoma Galactocele
	Mammary Acinus	Hyperplasia, Cystic Cyst, Follicular Nos
Ovary		Adenoma, Nos
Pituitary gland		Leukemia, Mononuclear Cell
Unspecified	Multiple Organs Nos	Dilatation, Nos
Uterus		Endometrial Stromal Polyp Hyperplasia, Focal
	Endometrium	Dilatation, Ducts Tissue Examined
Zymbal gland		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_024

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Kidney

Nephropathy

Lung

Foreign Material, Nos

Spleen

Depletion, Lymphoid

Urinary bladder

Calculus, Microscopic Examination

Mucosa

Metaplasia, Squamous

Zymbal gland

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_025

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Pneumonia, Interstitial Chronic
Mammary gland		Fibroadenoma
Oral mucosa	Palate Nos	Acanthosis
	Palate Nos	Hyperkeratosis
Pituitary gland	Pituitary Cell	Hyperplasia, Focal
Spleen	Follicles	Depletion, Lymphoid
Stomach	Fundus	Necrosis, Focal
Thyroid		Cyst, Follicular Nos
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_026

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland

Cortex Nos
Hardarian Gland
Hardarian Gland
Myocardium Nos

Heart
Kidney
Liver

Cell-Size Alteration
Inflammation, Chronic
Tissue Examined
Degeneration, Nos
Nephropathy
Cytoplasmic Change, Basophilic
Hyperplasia, Focal
Histiocytosis
Cyst, Embryonal Duct
Hyperplasia, Focal
Follicular-Cell Adenoma
Hyperplasia, Cystic
Hyperplasia, Papillary
Tissue Examined

Lymph node
Pituitary gland

Bile Duct
Mandibular Lymph Node
Anterior Pituitary
Pituitary Cell

Thyroid
Uterus

Endometrium
Endometrium

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_027

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Perivascularitis
Lymph node	Mandibular Lymph Node	Histiocytosis
Oral mucosa	Palate Nos	Squamous Cell Papilloma
Pituitary gland		Adenoma, Nos
Spleen	Follicles	Depletion, Lymphoid
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_028

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Hyperplasia, Focal
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Oral mucosa	Palate Nos	Squamous Cell Papilloma
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_029

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cytoplasmic Vacuolization
	Zona Fasciculata	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver	Capsule	Congestion, Nos
		Cytoplasmic Change, Basophilic
Mammary gland		Fibroadenoma
		Galactocele
	Mammary Acinus	Hyperplasia, Cystic
Ovary		Cyst, Parovarian
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Skin	Sebaceous Gland	Metaplasia, Nos
Thyroid		C-Cell Adenoma
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_030

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Zona Fasciculata

Cytoplasmic Vacuolization

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Mammary gland

Bile Duct

Hyperplasia, Focal

Ovary

Mammary Acinus

Hyperplasia, Cystic

Pituitary gland

Cyst, Follicular Nos

Uterus

Endometrium

Adenoma, Nos

Zymbal gland

Hyperplasia, Cystic

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_031

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland

Cortex Nos
Hardarian Gland
Hardarian Gland
Hardarian Gland

Necrosis, Focal
Atrophy, Focal
Inflammation, Chronic
Tissue Examined

Kidney
Pancreas
Skin

Tubule
Acinus
Foot And Toe Nos
Foot And Toe Nos

Dilatation, Nos
Atrophy, Focal
Acanthosis
Hyperkeratosis

Thyroid
Unspecified
Uterus
Zymbal gland

Multiple Organs Nos

Cyst, Embryonal Duct
Leukemia, Mononuclear Cell
Dilatation, Nos
Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_032

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Porphyrin

Heart

Harderian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Periportal

Cytoplasmic Vacuolization

Centrilobular

Necrosis, Focal

Lung

Aspiration, Foreign Body

Lymph node

Thymic Lymph Node

Inflammation, Acute/Chronic

Mammary gland

Inflammation, Granulomatous Focal

Pancreas

Fibroadenoma

Thymus

Acinus

Atrophy, Focal

Uterus

Cortex

Depletion, Lymphoid

Zymbal gland

Sarcoma, Nos

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_033

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cytoplasmic Vacuolization
	Medulla	Hyperplasia, Focal
Bone	Femur	Osteosclerosis
Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Ovary		Cyst, Parovarian
Thyroid		Follicular-Cell Adenoma
		Hyperplasia, C Cell
Uterus		Dilatation, Nos
		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_034

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Liver

Cytoplasmic Change, Basophilic

Lung

Inflammation, Acute Focal

Lymph node

Histiocytosis

Mammary gland

Mandibular Lymph Node

Hyperplasia, Cystic

Salivary gland

Mammary Acinus

Atrophy, Focal

Zymbal gland

Inflammation, Acute Focal

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_035

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Zona Fasciculata	Hyperplasia, Focal
Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Pancreas	Islets	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Cyst, Hemorrhagic
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_036

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone
Harderian gland

Femur
Harderian Gland
Harderian Gland

Osteosclerosis
Inflammation, Chronic
Tissue Examined
Degeneration, Nos
Nephropathy
Cytoplasmic Change, Basophilic

Heart
Kidney
Liver

Bile Duct
Mandibular Lymph Node

Hyperplasia, Focal
Histiocytosis
Fibroadenoma

Lymph node
Mammary gland

Mammary Acinus

Hyperplasia, Cystic
Adenoma, Nos

Pituitary gland

Anterior Pituitary

Cyst, Multiple

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_037

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Liver

Hardarian Gland

Tissue Examined

Mammary gland

Mammary Acinus

Clear-Cell Change

Pituitary gland

Anterior Pituitary

Cytoplasmic Change, Basophilic

Spleen

Follicles

Hyperplasia, Cystic

Stomach

Fundus

Cyst, Hemorrhagic

Thyroid

Depletion, Lymphoid

Zymbal gland

Necrosis, Focal

Follicular-Cell Carcinoma

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_038

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Thymic Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Spleen	Follicles	Depletion, Lymphoid
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Carcinoma, Nos
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_039

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Hyperplasia, Nos Pheochromocytoma
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic
Lymph node	Cervical Lymph Node Nos	C-Cell Carcinoma, Metastatic
Mammary gland		Fibroadenoma
	Mammary Acinus	Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Spleen	Follicles	Depletion, Lymphoid
Stomach	Fundus	Necrosis, Focal
Thyroid		C-Cell Carcinoma
Uterus	Endometrium	Adenoma, Nos
	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_040

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Zona Fasciculata	Hyperplasia, Focal
Bone	Femur	Osteosclerosis
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pituitary gland	Pituitary Cell	Hyperplasia, Focal
Skin	Back	Acanthosis
	Back	Ulcer, Chronic
Stomach	Fundus	Necrosis, Focal
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_041

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cytoplasmic Vacuolization
	Zona Fasciculata	Hyperplasia, Focal
Bone marrow		Hyperplasia, Reticulum Cell
Eye	Retina	Degeneration, Nos
		Microphthalmia
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Ovary		Cyst, Follicular Nos
Pancreas	Acinus	Atrophy, Focal
Stomach	Fundus	Necrosis, Focal
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Cervix Uteri	Diverticulum
	Endometrium	Hyperplasia, Cystic
Zymbal gland		Carcinoma, Nos
		Cystic Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_042

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Harderian gland
Liver
Lung

Hardarian Gland

Tissue Examined
Inflammation, Granulomatous Focal
Aspiration, Foreign Body
Inflammation, Acute Focal

Lymph node
Pituitary gland
Spleen
Thyroid
Zymbal gland

Mandibular Lymph Node
Anterior Pituitary
Follicles

Depletion, Lymphoid
Cyst, Multiple
Depletion, Lymphoid
Hyperplasia, C Cell
Dilatation, Ducts
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_043

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Skin	Back	Ulcer, Chronic
Spleen	Follicles	Depletion, Lymphoid
Stomach	Fundus	Necrosis, Focal
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_044

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Focal

Zona Fasciculata

Hyperplasia, Focal

Brain

Cerebrum

Periarteritis

Harderian gland

Hardarian Gland

Inflammation, Nos

Hardarian Gland

Tissue Examined

Liver

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Lung

Inflammation, Acute Focal

Pituitary gland

Adenoma, Nos

Thyroid

Hyperplasia, C Cell

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_045

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Inflammation, Granulomatous Focal
Oral mucosa	Palate Nos	Acanthosis
	Palate Nos	Hyperkeratosis
Pituitary gland		Adenoma, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Dilatation, Nos
		Endometrial Stromal Polyp
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_046

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization
Bone marrow		Aplasia, Hematopoietic
Brain	Cerebrum	Atrophy, Pressure
	Lateral Ventricle Nos	Hydrocephalus, Nos
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pituitary gland		Adenoma, Nos
Spleen	Red Pulp	Pigmentation, Nos
Thymus	Cortex	Depletion, Lymphoid
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_047

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cyst, Hemorrhagic
Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Necrosis, Focal
Lymph node	Renal Lymph Node	Histiocytosis
Mammary gland		Fibroadenoma
Stomach	Fundus	Necrosis, Focal
Thyroid		Follicular-Cell Carcinoma
		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_048

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Nephropathy

Cytoplasmic Change, Basophilic

Mammary gland

Bile Duct

Hyperplasia, Focal

Thyroid

Mammary Acinus

Hyperplasia, Cystic

Uterus

Endometrium

Hyperplasia, C Cell

Zymbal gland

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Pituitary gland

Pituitary Cell

Hyperplasia, Focal

Thyroid

Cyst, Follicular Nos

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_050

TRT#: 2

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Histiocytosis

Ovary

Cyst, Parovarian

Pituitary gland

Adenoma, Nos

Spleen

Follicles

Depletion, Lymphoid

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_001

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland		Fibroadenoma
	Mammary Acinus	Hyperplasia, Cystic
Pituitary gland		Adenoma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Hyperplasia, Focal
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_002

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Mammary gland

Fibroadenoma

Stomach

Fundus

Hemorrhage

Uterus

Dilatation, Nos

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_003

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Bone marrow
Harderian gland
Heart
Kidney
Liver
Mammary gland
Pituitary gland
Spleen
Stomach
Tongue
Uterus
Zymbal gland

Harderian Gland
Myocardium Nos

Centrilobular
Mammary Acinus

Red Pulp
Fundus

Endometrium

Pheochromocytoma
Aplasia, Hematopoietic
Tissue Examined
Degeneration, Nos
Nephropathy
Cytoplasmic Vacuolization
Hyperplasia, Cystic
Adenoma, Nos
Pigmentation, Nos
Necrosis, Focal
Squamous Cell Carcinoma
Hyperplasia, Focal
Dilatation, Ducts
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_004

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Nephropathy

Lymph node

Inflammation, Acute/Chronic

Pituitary gland

Mandibular Lymph Node

Hemorrhage

Uterus

Mandibular Lymph Node

Histiocytosis

Anterior Pituitary

Cyst, Multiple

Endometrium

Dilatation, Nos

Endometrium

Hyperplasia, Cystic

Hyperplasia, Papillary

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_005

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney		Nephropathy
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Ovary		Cyst, Parovarian
Pituitary gland	Anterior Pituitary	Inflammation, Chronic Focal
Thyroid	Follicle	Hyperplasia, Cystic
Tongue		Squamous Cell Carcinoma
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_006

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Lymph node	Mandibular Lymph Node	Histiocytosis
Oral mucosa	Palate Nos	Squamous Cell Papilloma
Pituitary gland	Anterior Pituitary	Cyst, Embryonal Duct
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_007

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Bone
Harderian gland
Liver
Mammary gland
Pituitary gland
Unspecified
Zymbal gland

Femur
Harderian Gland
Bile Duct
Mammary Acinus
Anterior Pituitary
Multiple Organs Nos

Osteosclerosis
Tissue Examined
Hyperplasia, Focal
Hyperplasia, Cystic
Cyst, Multiple
Leukemia, Mononuclear Cell
Cystic Ducts
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_008

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Lymph node

Mandibular Lymph Node

Histiocytosis

Oral mucosa

Palate Nos

Squamous Cell Papilloma

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Adenoma, Nos

Spleen

Follicles

Depletion, Lymphoid

Uterus

Endometrial Stromal Polyp

Zymbal gland

Endometrium

Hyperplasia, Cystic

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_009

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Pituitary gland

Anterior Pituitary

Cyst, Embryonal Duct

Spleen

Follicles

Depletion, Lymphoid

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Cystic Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_010

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Liver

Cytoplasmic Change, Basophilic

Unspecified

Axilla

Liposarcoma

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_011

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Atrophy, Focal

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Oral mucosa

Bile Duct

Hyperplasia, Focal

Pituitary gland

Palate Nos

Squamous Cell Papilloma

Stomach

Anterior Pituitary

Cyst, Embryonal Duct

Thyroid

Fundus

Necrosis, Focal

Unspecified

Multiple Organs Nos

C-Cell Adenoma

Uterus

Leukemia, Mononuclear Cell

Zymbal gland

Endometrium

Dilatation, Nos

Hyperplasia, Cystic

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_012

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Histiocytosis

Mammary gland

Fibroadenoma

Inflammation, Chronic Focal

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Adenoma, Nos

Thyroid

Follicular-Cell Carcinoma

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_013

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Lymph node

Mandibular Lymph Node

Histiocytosis

Mammary gland

Mammary Acinus

Hyperplasia, Cystic

Ovary

Cyst, Follicular Nos

Pituitary gland

Anterior Pituitary

Cyst, Embryonal Duct

Skin

Back

Keratoacanthoma

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_014

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Congestion, Nos
	Medulla	Hyperplasia, Focal
Brain	Cerebrum	Atrophy, Pressure
Harderian gland	Hardarian Gland	Atrophy, Nos
	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pituitary gland		Adenoma, Nos
Skin	Sebaceous Gland	Hyperplasia, Focal
	Lip Nos	Squamous Cell Papilloma
Stomach	Fundus	Necrosis, Focal
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Dilatation, Nos
	Endometrium	Hyperplasia, Cystic
Zymbal gland		Adenoma, Nos
		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_015

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Pituitary gland

Anterior Pituitary

Cyst, Embryonal Duct

Thyroid

Follicular-Cell Carcinoma

Follicle

Hyperplasia, Cystic

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_016

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Ovary

Granulosa-Cell Tumor

Pituitary gland

Adenoma, Nos

Uterus

Dilatation, Nos

Endometrium

Hyperplasia, Cystic

Endometrial Stroma

Inflammation, Acute Focal

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_017

TRT#: 3

DOSE: 050.0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Harderian gland

Heart

Lymph node

Pituitary gland

Spleen

Tongue

Uterus

Zymbal gland

Harderian Gland

Myocardium Nos

Thymic Lymph Node

Red Pulp

Tissue Examined

Mineralization

Erythrophagocytosis

Adenoma, Nos

Depletion, Lymphoid

Pigmentation, Nos

Squamous Cell Carcinoma

Endometrial Stromal Polyp

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_018

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Fibroadenoma
Pituitary gland	Pituitary Cell	Hyperplasia, Focal
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic
	Endometrial Stroma	Inflammation, Active Chronic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_019

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Lymph node

Mandibular Lymph Node

Cytoplasmic Change, Basophilic

Ovary

Histiocytosis

Stomach

Fundus

Granulosa-Cell Tumor

Thyroid

Necrosis, Focal

Uterus

Endometrium

Follicular-Cell Adenoma

Adenocarcinoma, Nos

Dilatation, Nos

Zymbal gland

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_020

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Brain	Cerebrum	Atrophy, Pressure
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Neoplastic Nodule
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland		Fibroadenoma
		Galactocele
	Mammary Acinus	Hyperplasia, Cystic
Oral mucosa	Palate Nos	Squamous Cell Papilloma
Ovary		Inflammation, Chronic Focal
Pituitary gland		Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Thyroid		Cystic Follicles
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Cystic Ducts
		Inflammation, Chronic
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_021

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Bile Duct

Nephropathy

Mammary gland

Mammary Acinus

Hyperplasia, Focal

Inflammation, Granulomatous Focal

Pituitary gland

Hyperplasia, Cystic

Hyperplasia, Focal

Uterus

Endometrium

Adenoma, Nos

Zymbal gland

Hyperplasia, Cystic

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_022

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone marrow

Harderian gland

Liver

Lung

Lymph node

Spleen

Thymus

Zymbal gland

Harderian Gland

Hepatocytes

Mandibular Lymph Node

Red Pulp

Hypoplasia, Hematopoietic

Tissue Examined

Cytoplasmic Vacuolization

Inflammation, Active Chronic

Depletion, Lymphoid

Pigmentation, Nos

Depletion, Lymphoid

Carcinoma, Nos

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_023

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Carcinoma, Nos, Invasive

Heart

Harderian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Hepatocytes

Nephropathy

Mammary gland

Mammary Acinus

Cytoplasmic Vacuolization

Oral mucosa

Palate Nos

Hyperplasia, Cystic

Uterus

Endometrium

Squamous Cell Papilloma

Zymbal gland

Inflammation, Acute Focal

Carcinoma, Nos

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_024

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Zona Fasciculata

Necrosis, Focal

Bone

Femur

Osteosclerosis

Harderian gland

Harderian Gland

Tissue Examined

Heart

Epicardium

Inflammation, Acute Focal

Lymph node

Mandibular Lymph Node

Necrosis, Focal

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_025

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cytoplasmic Vacuolization
Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland		Fibroadenoma
Oral mucosa	Palate Nos	Acanthosis
	Palate Nos	Hyperkeratosis
Pancreas	Islets	Cell-Size Alteration
Spleen	Follicles	Depletion, Lymphoid
Thymus	Cortex	Depletion, Lymphoid
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_026

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Bile Duct

Nephropathy

Lymph node

Mandibular Lymph Node

Hyperplasia, Focal

Ovary

Pituitary gland

Pituitary Cell

Histiocytosis

Uterus

Endometrium

Cyst, Follicular Nos

Zymbal gland

Hyperplasia, Focal

Hyperplasia, Cystic

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene
CAS Number: 71-43-2

Date Report Requested: 10/26/2014
Time Report Requested: 17:52:58
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_027

TRT#: 3
DOSE: 050.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal Inflammation, Granulomatous Focal
Ovary		Cyst, Parovarian Inflammation, Chronic Focal
Stomach	Fundus	Necrosis, Focal
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_028

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Inflammation, Chronic

Heart

Harderian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Bile Duct

Nephropathy

Mammary gland

Mammary Acinus

Hyperplasia, Focal

Pituitary gland

Anterior Pituitary

Hyperplasia, Cystic

Thyroid

Unspecified

Multiple Organs Nos

Cyst, Embryonal Duct

Uterus

Cyst, Follicular Nos

Leukemia, Mononuclear Cell

Dilatation, Nos

Dilatation, Nos

Endometrial Stromal Polyp

Zymbal gland

Endometrium

Hyperplasia, Cystic

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_029

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Pituitary gland

Adenoma, Nos

Stomach

Fundus

Necrosis, Focal

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Cystic Ducts

Dilatation, Ducts

Hyperplasia, Focal

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_030

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cytoplasmic Vacuolization
Brain	Cerebrum	Atrophy, Pressure
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_031

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cytoplasmic Vacuolization
Bone	Femur	Osteosclerosis
Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
	Hepatocytes	Necrosis, Nos
Lymph node	Inguinal Lymph Node	Histiocytosis
	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pituitary gland	Pituitary Cell	Cytoplasmic Vacuolization
Spleen	Follicles	Depletion, Lymphoid
Thyroid		Hyperplasia, C Cell
Urinary bladder		Inflammation, Active Chronic
Uterus	Cervix Uteri	Adenosquamous Carcinoma
	Endometrium	Hyperplasia, Cystic
Zymbal gland		Cystic Ducts
		Dilatation, Ducts
		Hyperplasia, Focal
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_032

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Nephropathy

Lung

Bile Duct

Cytoplasmic Change, Basophilic

Thymus

Hyperplasia, Focal

Zymbal gland

Congestion, Acute

Depletion, Lymphoid

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_033

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Brain

Harderian gland

Liver

Mammary gland

Pituitary gland

Tongue

Zymbal gland

Medulla

Cerebrum

Hardarian Gland

Hardarian Gland

Hepatocytes

Hyperplasia, Focal

Atrophy, Pressure

Inflammation, Chronic

Tissue Examined

Cytoplasmic Change, Basophilic

Adenocarcinoma, Nos

Adenoma, Nos

Squamous Cell Papilloma

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_034

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver	Periportal	Cytoplasmic Vacuolization
Lymph node	Mandibular Lymph Node	Histiocytosis
	Mandibular Lymph Node	Necrosis, Focal
Ovary		Cyst, Parovarian
Pituitary gland		Adenoma, Nos
Spleen	Follicles	Depletion, Lymphoid
Thymus	Cortex	Depletion, Lymphoid
Thyroid		Follicular-Cell Adenoma
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Carcinoma, Nos
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_035

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Retina	Degeneration, Nos
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Skin	Sebaceous Gland	Hyperplasia, Nos
Uterus	Endometrium	Adenocarcinoma, Nos
		Dilatation, Nos
Zymbal gland		Carcinoma, Nos
		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Benzene
CAS Number: 71-43-2

Date Report Requested: 10/26/2014
Time Report Requested: 17:52:58
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_036

TRT#: 3
DOSE: 050.0 MG/KG

SEX: Female
DISP: Dosing Accident

DAY ON TEST:
HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Unspecified

Bile Duct

Hyperplasia, Focal

Zymbal gland

Periportal

Inflammation, Acute/Chronic

Mediastinum Nos

Granuloma, Foreign Body

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_037

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Inflammation, Granulomatous Focal

Lymph node

Mesenteric Lymph Node

Histiocytosis

Mammary gland

Fibroadenoma

Ovary

Cyst, Follicular Nos

Skin

Lip Nos

Squamous Cell Papilloma

Spleen

Follicles

Depletion, Lymphoid

Thyroid

C-Cell Adenoma

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_038

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Degeneration, Nos
Brain	Hypothalamus Nos	Atrophy, Pressure
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Inflammation, Chronic Focal
Kidney	Pelvis	Hyperplasia, Epithelial
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung	Alveoli	Histiocytosis
Pituitary gland		Adenoma, Nos
Urinary bladder	Mucosa	Hyperplasia, Papillary
Zymbal gland		Cystic Ducts
		Hyperplasia, Focal
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_039

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland
Heart
Liver

Harderian Gland
Myocardium Nos

Tissue Examined
Degeneration, Nos
Cytoplasmic Change, Basophilic
Inflammation, Granulomatous Focal

Lymph node
Mammary gland

Mandibular Lymph Node

Histiocytosis
Fibroadenoma

Oral mucosa

Mammary Acinus
Palate Nos
Palate Nos

Hyperplasia, Cystic
Acanthosis
Hyperkeratosis

Pancreas

Acinus

Atrophy, Focal

Skin

Sebaceous Gland

Metaplasia, Nos
Cyst, Follicular Nos
Hyperplasia, C Cell
Hyperplasia, Follicular Cell

Thyroid

Uterus

Endometrium

Endometrial Stromal Polyp
Hyperplasia, Cystic
Carcinoma, Nos
Dilatation, Ducts
Tissue Examined

Zymbal gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene
CAS Number: 71-43-2

Date Report Requested: 10/26/2014
Time Report Requested: 17:52:58
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 3_040

TRT#: 3
DOSE: 050.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland

Harderian Gland
Harderian Gland
Myocardium Nos

Heart
Kidney
Liver

Pheochromocytoma
Inflammation, Chronic
Tissue Examined
Degeneration, Nos
Nephropathy
Clear-Cell Change
Cytoplasmic Change, Basophilic
Hyperplasia, Focal
Histiocytosis
Hyperplasia, C Cell
Hyperplasia, Cystic
Dilatation, Ducts
Hyperplasia, Focal
Tissue Examined

Lymph node
Thyroid
Uterus
Zymbal gland

Bile Duct
Mandibular Lymph Node
Endometrium

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_041

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland
Heart
Kidney
Liver

Lymph node
Mammary gland
Ovary
Pancreas
Pituitary gland
Salivary gland
Spleen
Uterus
Zymbal gland

Cortex Nos
Harderian Gland
Myocardium Nos

Mandibular Lymph Node
Mammary Acinus

Acinus

Follicles
Endometrium

Cytoplasmic Vacuolization
Tissue Examined
Degeneration, Nos
Nephropathy
Angiectasis
Cytoplasmic Change, Basophilic
Histiocytosis
Hyperplasia, Focal
Cyst, Parovarian
Atrophy, Focal
Hyperplasia, Focal
Atrophy, Focal
Depletion, Lymphoid
Hyperplasia, Cystic
Dilatation, Ducts
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_042

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Ear	Canal	Squamous Cell Papilloma
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Ovary		Cyst, Parovarian
Stomach	Fundus	Necrosis, Focal
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_043

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Cell-Size Alteration
	Zona Fasciculata	Cytoplasmic Vacuolization
	Zona Fasciculata	Hematopoiesis
Harderian gland	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland		Adenocarcinoma, Nos
Pituitary gland		Hemorrhage, Chronic
Thyroid		Ectopia
Unspecified	Neck	Inflammation, Acute/Chronic
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Cystic Ducts
		Dilatation, Ducts
		Hyperplasia, Focal
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_044

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Inflammation, Chronic

Liver

Harderian Gland

Tissue Examined

Lung

Hepatocytes

Cytoplasmic Vacuolization

Thyroid

Carcinosarcoma, Metastatic

Zymbal gland

C-Cell Carcinoma

Carcinosarcoma

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_045

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Lymph node

Mandibular Lymph Node

Clear-Cell Change

Ovary

Cytoplasmic Change, Basophilic

Thyroid

Histiocytosis

Uterus

Endometrium

Cyst, Follicular Nos

Zymbal gland

C-Cell Adenoma

Hyperplasia, Cystic

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_046

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Histiocytosis

Mammary gland

Mammary Acinus

Hyperplasia, Cystic

Stomach

Fundus

Necrosis, Focal

Thyroid

Hyperplasia, C Cell

Uterus

Dilatation, Nos

Endometrium

Hyperplasia, Cystic

Zymbal gland

Cystic Ducts

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_047

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Eye	Cornea	Inflammation, Chronic Focal
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Ovary		Cyst, Parovarian
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Embryonal Duct
	Pituitary Cell	Hyperplasia, Focal
Skin	Tail	Squamous Cell Papilloma
Thymus		Cyst, Embryonal Duct
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_048

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Kidney

Nephropathy

Liver

Periportal

Cytoplasmic Vacuolization

Mammary gland

Fibroadenoma

Galactocele

Pituitary gland

Mammary Acinus

Hyperplasia, Cystic

Anterior Pituitary

Cyst, Embryonal Duct

Pituitary Cell

Hyperplasia, Focal

Spleen

Red Pulp

Pigmentation, Nos

Stomach

Fundus

Ulcer, Acute

Tongue

Squamous Cell Carcinoma

Uterus

Endometrial Stromal Polyp

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_049

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Dosing Accident

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Inflammation, Chronic Focal

Liver

Cytoplasmic Change, Basophilic

Lung

Foreign Material, Nos

Thyroid

Cyst, Thyroglossal Duct

Uterus

Endometrial Stromal Polyp

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_050

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Inflammation, Granulomatous Focal

Mammary gland

Fibroadenoma

Mammary Acinus

Hyperplasia, Cystic

Ovary

Cyst, Parovarian

Pituitary gland

Adenoma, Nos

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_001

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Inflammation, Chronic Focal

Thyroid

Hyperplasia, C Cell

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_002

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Kidney

Hardarian Gland

Tissue Examined

Liver

Cortex

Nephrosis, Nos

Lymph node

Mandibular Lymph Node

Cytoplasmic Change, Basophilic

Mammary gland

Inflammation, Granulomatous Focal

Plasmacytosis

Pituitary gland

Mammary Acinus

Adenocarcinoma, Nos

Unspecified

Zymbal gland

Multiple Organs Nos

Fibroadenoma

Hyperplasia, Cystic

Adenoma, Nos

Leukemia, Mononuclear Cell

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_003

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Hydrocephalus, Nos
Harderian gland	Harderian Gland	Tissue Examined
Kidney		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
Lung		Alveolar Macrophages
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pituitary gland		Adenoma, Nos
	Anterior Pituitary	Hemorrhage, Chronic
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
	Fundus	Necrosis, Focal
Thymus		Depletion, Lymphoid
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_004

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Zona Fasciculata

Cortical Adenoma

Harderian gland

Hardarian Gland

Focal Cellular Change

Kidney

Tissue Examined

Liver

Nephrosis, Nos

Mammary gland

Inflammation, Acute/Chronic

Adenocarcinoma, Nos

Fibroadenoma

Mammary Acinus

Hyperplasia, Focal

Pituitary gland

Adenoma, Nos

Vagina

Fibroma

Zymbal gland

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_005

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Lung

Perivascular Cuffing

Mammary gland

Mammary Acinus

Hyperplasia, Cystic

Thyroid

C-Cell Carcinoma

Uterus

Dilatation, Nos

Endometrium

Hyperplasia, Cystic

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_006

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Mammary gland

Mammary Acinus

Focal Cellular Change

Uterus

Inflammation, Granulomatous Focal

Zymbal gland

Hyperplasia, Cystic

Endometrial Stromal Polyp

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_007

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Cortex

Nephrosis, Nos

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Mammary gland

Fibroadenoma

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Anterior Pituitary

Cyst, Embryonal Duct

Pituitary Cell

Hyperplasia, Focal

Uterus

Dilatation, Nos

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_008

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Pituitary gland

Hardarian Gland

Tissue Examined

Thymus

Anterior Pituitary

Cyst, Embryonal Duct

Uterus

Endometrium

Depletion, Lymphoid

Zymbal gland

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_009

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland

Zona Fasciculata
Hardarian Gland
Hardarian Gland

Heart
Liver

Myocardium Nos
Bile Duct

Pituitary gland
Thyroid

Uterus

Endometrium

Zymbal gland

Clear-Cell Change
Inflammation, Chronic
Tissue Examined
Degeneration, Nos
Hyperplasia, Focal
Inflammation, Granulomatous Focal
Adenoma, Nos
Hyperplasia, C Cell
Hyperplasia, Cystic
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_010

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Fibrosis, Myelo
Clitoral gland		Carcinoma, Nos
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Acute Focal
Lung		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pituitary gland		Adenoma, Nos
	Anterior Pituitary	Cyst, Embryonal Duct
Spleen	Red Pulp	Hematopoiesis
Unspecified	Groin	Fibroma
Uterus		Dilatation, Nos
		Endometrial Stromal Polyp
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_011

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Lung

Clear-Cell Change

Lymph node

Cytoplasmic Change, Basophilic

Stomach

Inflammation, Granulomatous Focal

Thyroid

Inflammation, Acute/Chronic

Uterus

Mandibular Lymph Node

Histiocytosis

Zymbal gland

Fundus

Necrosis, Focal

Endometrium

C-Cell Carcinoma

Hyperplasia, Cystic

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_012

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Mammary gland

Bile Duct

Hyperplasia, Focal

Ovary

Hyperplasia, Cystic

Pituitary gland

Cyst, Parovarian

Uterus

Endometrium

Adenoma, Nos

Zymbal gland

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_013

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Mammary gland

Mammary Acinus

Inflammation, Granulomatous Focal

Pituitary gland

Hyperplasia, Cystic

Uterus

Endometrium

Adenoma, Nos

Zymbal gland

Hyperplasia, Cystic

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_014

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata Zona Reticularis	Clear-Cell Change Necrosis, Focal Pheochromocytoma
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Nephrosis, Nos
Liver	Bile Duct	Hyperplasia, Focal Inflammation, Granulomatous Focal
Lung		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland		Fibroadenoma
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_015

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Oral mucosa

Palate Nos

Inflammation, Granulomatous Focal

Pancreas

Acinus

Squamous Cell Papilloma

Pituitary gland

Atrophy, Focal

Stomach

Anterior Pituitary

Adenoma, Nos

Thyroid

Fundus

Cyst, Embryonal Duct

Uterus

Endometrium

Necrosis, Focal

Zymbal gland

Hyperplasia, C Cell

Hyperplasia, Cystic

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_016

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Liver

Hardarian Gland

Tissue Examined

Pituitary gland

Anterior Pituitary

Inflammation, Acute Focal

Thyroid

Cyst, Embryonal Duct

Urinary bladder

Submucosa

Hyperplasia, C Cell

Uterus

Inflammation, Chronic Focal

Dilatation, Nos

Zymbal gland

Endometrial Stromal Polyp

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276
Test Type: Long-Term
Route: Gavage
Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene
CAS Number: 71-43-2

Date Report Requested: 10/26/2014
Time Report Requested: 17:52:58
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 4_017

TRT#: 4
DOSE: 0

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Bone
Harderian gland
Kidney
Liver

Femur
Hardarian Gland

Osteosclerosis
Tissue Examined
Nephrosis, Nos
Cytoplasmic Change, Basophilic
Inflammation, Granulomatous Focal

Lymph node
Thyroid

Hepatocytes
Mesenteric Lymph Node

Necrosis, Focal
Inflammation, Chronic Focal
Cyst, Follicular Nos
Hyperplasia, C Cell

Uterus

Dilatation, Nos
Endometrial Stromal Polyp

Zymbal gland

Endometrium

Hyperplasia, Cystic
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_018

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Lymph node

Bile Duct

Hyperplasia, Focal

Thyroid

Mandibular Lymph Node

Histiocytosis

Uterus

Endometrium

Hyperplasia, C Cell

Zymbal gland

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_019

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Reticularis	Necrosis, Focal
Bone	Femur	Osteosclerosis
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver		Inflammation, Granulomatous Focal
Lung		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
	Thymic Lymph Node	Pigmentation, Nos
Pituitary gland	Pituitary Cell	Hyperplasia, Focal
Thyroid		Follicular-Cell Adenoma
Uterus		Dilatation, Nos
	Endometrium	Endometrial Stromal Polyp
Zymbal gland		Hyperplasia, Cystic
		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_020

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Inflammation, Chronic

Heart

Harderian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Bile Duct

Nephropathy

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Hyperplasia, Focal

Inflammation, Granulomatous Focal

Mammary gland

Histiocytosis

Fibroadenoma

Pancreas

Mammary Acinus

Galactocele

Hyperplasia, Cystic

Stomach

Islets

Islet-Cell Adenoma

Thyroid

Fundus

Necrosis, Focal

Urinary bladder

Submucosa

Hyperplasia, C Cell

Uterus

Endometrium

Inflammation, Chronic Focal

Zymbal gland

Hyperplasia, Cystic

Cystic Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_021

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Lung

Bile Duct

Hyperplasia, Focal

Mammary gland

Inflammation, Granulomatous Focal

Stomach

Mammary Acinus

Perivasculitis

Uterus

Fundus

Hyperplasia, Cystic

Zymbal gland

Endometrium

Necrosis, Focal

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_022

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Reticularis	Necrosis, Focal
Clitoral gland		Carcinoma, Nos
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pituitary gland		Adenoma, Nos
Stomach	Fundus	Necrosis, Focal
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_023

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Inflammation, Granulomatous Focal

Lung

Carcinoma, Nos, Metastatic

Lymph node

Mandibular Lymph Node

Histiocytosis

Pancreas

Acinus

Atrophy, Focal

Salivary gland

Atrophy, Focal

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Uterus

Endometrium

Cytoplasmic Vacuolization

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_024

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Nephropathy

Lung

Bile Duct

Cytoplasmic Change, Basophilic

Mammary gland

Hyperplasia, Focal

Hyperplasia, Alveolar Epithelium

Stomach

Mammary Acinus

Fibroadenoma

Thyroid

Fundus

Hyperplasia, Focal

Zymbal gland

Necrosis, Focal

Hyperplasia, C Cell

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_025

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Lymph node

Mandibular Lymph Node

Histiocytosis

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Inflammation, Chronic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_026

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Lymph node

Thymic Lymph Node

Inflammation, Chronic Focal

Pituitary gland

Pituitary Cell

Hyperplasia, Focal

Thyroid

Follicular-Cell Adenoma

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_027

TRT#: 4

DOSE: 0

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Brain	Cerebrum	Atrophy, Pressure
Harderian gland	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Cystic Ducts
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_028

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Inflammation, Chronic Focal
Ovary		Cyst, Parovarian
Stomach	Fundus	Necrosis, Focal
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_029

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Not Examined

Liver

Inflammation, Granulomatous Focal

Pituitary gland

Anterior Pituitary

Cyst, Embryonal Duct

Anterior Pituitary

Hemorrhage

Stomach

Fundus

Necrosis, Focal

Trachea

Peritracheal Tissue

Inflammation, Granulomatous Focal

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_030

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland
Liver

Hardarian Gland

Tissue Examined
Cytoplasmic Change, Basophilic
Inflammation, Granulomatous Focal

Pituitary gland

Adenoma, Nos

Stomach

Fundus

Necrosis, Focal

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_031

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Harderian Gland

Inflammation, Chronic

Heart

Harderian Gland

Tissue Examined

Intestine Large

Myocardium Nos

Degeneration, Nos

Kidney

Cecum, Colon

Hemorrhage

Liver

Nephropathy

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Inflammation, Granulomatous Focal

Oral mucosa

Palate Nos

Acanthosis

Pancreas

Palate Nos

Hyperkeratosis

Pituitary gland

Acinus

Atrophy, Focal

Thyroid

Uterus

Endometrium

Adenoma, Nos

Hyperplasia, C Cell

Zymbal gland

Hyperplasia, Cystic

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_032

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Kidney

Hardarian Gland

Tissue Examined

Lung

Nephropathy

Mammary gland

Mammary Acinus

Perivasculitis

Thyroid

Hyperplasia, Cystic

Uterus

Endometrium

C-Cell Adenoma

Zymbal gland

Hyperplasia, Focal

Tissue Not Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_033

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Liver

Cytoplasmic Change, Basophilic

Lung

Alveolar Macrophages

Mammary gland

Hyperplasia, Alveolar Epithelium

Fibroadenoma

Mammary Acinus

Hyperplasia, Cystic

Pituitary gland

Adenoma, Nos

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_034

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Mammary gland

Bile Duct

Hyperplasia, Focal

Pituitary gland

Mammary Acinus

Fibroadenoma

Unspecified

Multiple Organs Nos

Hyperplasia, Cystic

Zymbal gland

Adenoma, Nos

Leukemia, Mononuclear Cell

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_035

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Fibroadenoma
	Mammary Acinus	Hyperplasia, Cystic
Pituitary gland		Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Thyroid		C-Cell Carcinoma
Uterus	Endometrial Stroma	Edema, Nos
		Endometrial Stromal Sarcoma
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_036

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone
Harderian gland

Femur
Harderian Gland
Harderian Gland

Osteosclerosis
Inflammation, Chronic
Tissue Examined

Heart
Liver

Myocardium Nos

Degeneration, Nos
Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal
Inflammation, Granulomatous Focal

Lymph node
Uterus

Mandibular Lymph Node

Histiocytosis
Dilatation, Nos

Endometrium

Hyperplasia, Cystic
Leiomyoma

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_037

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone marrow		Hyperplasia, Reticulum Cell
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Pituitary gland	Anterior Pituitary	Congestion, Nos
	Pituitary Cell	Hyperplasia, Focal
Stomach	Fundus	Necrosis, Focal
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic
	Endometrium	Hyperplasia, Papillary
	Endometrial Stroma	Inflammation, Active Chronic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_038

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Tissue Examined

Kidney

Congestion, Acute Passive

Liver

Congestion, Acute Passive

Lung

Congestion, Nos

Spleen

Red Pulp

Pigmentation, Nos

Trachea

Mucosa

Wound, Lacerated

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_039

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Nephropathy

Lymph node

Cytoplasmic Change, Basophilic

Pancreas

Mandibular Lymph Node

Histiocytosis

Stomach

Acinus

Atrophy, Focal

Zymbal gland

Fundus

Necrosis, Focal

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_040

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Bone

Femur

Osteosclerosis

Harderian gland

Hardarian Gland

Inflammation, Chronic

Hardarian Gland

Tissue Examined

Kidney

Nephropathy

Lymph node

Mandibular Lymph Node

Histiocytosis

Thymic Lymph Node

Histiocytosis

Thyroid

Cyst, Follicular Nos

Uterus

Hyperplasia, Papillary

Endometrium

Dilatation, Nos

Zymbal gland

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_041

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Eye

Harderian gland

Liver

Lymph node

Mammary gland

Uterus

Zymbal gland

Retina

Cornea

Hardarian Gland

Hardarian Gland

Mandibular Lymph Node

Mammary Acinus

Endometrium

Metamorphosis, Fatty

Degeneration, Nos

Inflammation, Chronic Focal

Inflammation, Chronic

Tissue Examined

Cytoplasmic Change, Basophilic

Inflammation, Granulomatous Focal

Inflammation, Granulomatous Focal

Hyperplasia, Cystic

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_042

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone
Harderian gland

Femur
Harderian Gland
Harderian Gland

Osteosclerosis
Inflammation, Chronic
Tissue Examined

Intestine Large
Pituitary gland

Rectum

Hemorrhage
Adenoma, Nos

Thyroid

Follicle

Cyst, Multiple

Uterus

Endometrium

Hyperplasia, Focal

Zymbal gland

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_043

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Harderian gland

Zona Fasciculata
Hardarian Gland
Hardarian Gland

Cytoplasmic Vacuolization
Inflammation, Chronic
Tissue Examined

Heart
Liver

Myocardium Nos

Degeneration, Nos
Cytoplasmic Change, Basophilic

Lymph node
Mammary gland
Pituitary gland

Bile Duct
Mandibular Lymph Node
Mammary Acinus

Hyperplasia, Focal
Histiocytosis
Hyperplasia, Cystic

Stomach
Unspecified
Uterus

Fundus
Multiple Organs Nos

Adenoma, Nos
Necrosis, Focal
Leukemia, Mononuclear Cell

Zymbal gland

Endometrial Stroma

Dilatation, Nos
Inflammation, Acute Focal
Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_044

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Bone	Femur	Osteosclerosis
Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Stomach	Fundus	Necrosis, Focal
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_045

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Zona Fasciculata	Necrosis, Focal
Eye	Crystalline Lens	Cataract
	Retina	Degeneration, Nos
Harderian gland	Hardarian Gland	Inflammation, Chronic
	Hardarian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Pituitary gland		Adenoma, Nos
Stomach	Cardiac Stomach	Acanthosis
	Cardiac Stomach	Hyperkeratosis
	Submucosa	Inflammation, Acute/Chronic
Thyroid	Follicle	Cyst, Multiple
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_046

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Hardarian Gland

Periarteritis

Hardarian Gland

Tissue Examined

Heart

Myocardium Nos

Degeneration, Nos

Liver

Cytoplasmic Change, Basophilic

Lymph node

Mandibular Lymph Node

Histiocytosis

Pituitary gland

Anterior Pituitary

Cyst, Embryonal Duct

Pituitary Cell

Hyperplasia, Focal

Thyroid

Hyperplasia, C Cell

Unspecified

Chest

Fibroma

Uterus

Endometrium

Hyperplasia, Cystic

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_047

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Harderian gland

Hardarian Gland

Inflammation, Chronic

Heart

Hardarian Gland

Tissue Examined

Liver

Myocardium Nos

Degeneration, Nos

Lung

Bile Duct

Cytoplasmic Change, Basophilic

Lymph node

Hyperplasia, Focal

Mammary gland

Mandibular Lymph Node

Perivasculitis

Pancreas

Mammary Acinus

Histiocytosis

Stomach

Acinus

Hyperplasia, Cystic

Uterus

Fundus

Atrophy, Focal

Zymbal gland

Endometrium

Necrosis, Focal

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_048

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Bone

Harderian gland

Heart

Kidney

Liver

Lymph node

Mammary gland

Ovary

Pituitary gland

Stomach

Uterus

Zymbal gland

Femur

Harderian Gland

Harderian Gland

Myocardium Nos

Bile Duct

Mandibular Lymph Node

Mammary Acinus

Fundus

Endometrium

Pheochromocytoma

Osteosclerosis

Inflammation, Chronic

Tissue Examined

Degeneration, Nos

Nephropathy

Hyperplasia, Focal

Inflammation, Granulomatous Focal

Histiocytosis

Hyperplasia, Cystic

Cyst, Parovarian

Adenoma, Nos

Necrosis, Focal

Hyperplasia, Cystic

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_049

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Brain		Hydrocephalus, Nos
Harderian gland	Harderian Gland	Inflammation, Chronic
	Harderian Gland	Tissue Examined
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Histiocytosis
Mammary gland	Mammary Acinus	Hyperplasia, Cystic
Ovary		Cyst, Follicular Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Skin	Tail	Squamous Cell Papilloma
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
Zymbal gland		Dilatation, Ducts
		Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4_050

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Bone

Femur

Dysplasia, Fibrous

Harderian gland

Hardarian Gland

Hyperplasia, Focal

Hardarian Gland

Tissue Examined

Myocardium Nos

Degeneration, Nos

Heart

Kidney

Nephropathy

Liver

Hepatocytes

Cytoplasmic Vacuolization

Pituitary gland

Adenoma, Nos

Stomach

Pyloric Gland

Ulcer, Acute

Uterus

Endometrial Stromal Polyp

Zymbal gland

Dilatation, Ducts

Tissue Examined

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_051

TRT#: 5

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Lung	Bronchiole	Hyperplasia, Lymphoid
Uterus		Dilatation, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_052

TRT#: 5

DOSE: 100.0 MG/KG

SEX: Female

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Ovary

Spleen

Cyst, Parovarian

Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_053

TRT#: 5

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Lung

Bronchiole

Hyperplasia, Lymphoid

Ovary

Cyst, Parovarian

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_054

TRT#: 5

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchiole	Hyperplasia, Lymphoid
Lymph node	Thoracic Lymph Node	Inflammation, Granulomatous Focal
Spleen		Depletion, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_055

TRT#: 5

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Heart

Lung

Myocardium Nos

Bronchiole

Uterus

Endometrium

Hyperplasia, Reticulum Cell

Degeneration, Nos

Aspiration, Foreign Body

Hyperplasia, Lymphoid

Inflammation, Interstitial

Inflammation, Acute Diffuse

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_056

TRT#: 5

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney		Nephropathy
Liver		Inflammation, Granulomatous Focal
Ovary		Cyst, Parovarian
Pituitary gland	Pituitary Cell	Hyperplasia, Focal
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_057

TRT#: 5

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Kidney

Liver

Bile Duct

Lung

Bronchiole

Ovary

Pancreas

Acinus

Thyroid

Hyperplasia, Reticulum Cell

Nephropathy

Cytoplasmic Change, Basophilic

Hyperplasia, Focal

Inflammation, Acute/Chronic

Hyperplasia, Lymphoid

Cyst, Parovarian

Atrophy, Focal

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_058

TRT#: 5

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Heart

Liver

Pancreas

Pituitary gland

Thyroid

Uterus

Myocardium Nos

Bile Duct

Acinus

Intermedia

Hyperplasia, Reticulum Cell

Degeneration, Nos

Hyperplasia, Focal

Inflammation, Acute/Chronic

Atrophy, Focal

Cyst, Embryonal Duct

Hyperplasia, C Cell

Dilatation, Nos

Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 5_059

TRT#: 5

SEX: Female

DAY ON TEST:

DOSE: 100.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Liver

Bile Duct

Hyperplasia, Focal

Thyroid

Hyperplasia, C Cell

Uterus

Dilatation, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 6_051

TRT#: 6

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Liver

Cytoplasmic Change, Basophilic
Inflammation, Granulomatous Focal
Cyst, Parovarian

Ovary

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 6_052

TRT#: 6

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Thoracic Lymph Node	Inflammation, Acute/Chronic
Ovary		Inflammation, Acute Suppurative
Spleen		Depletion, Lymphoid
	Red Pulp	Pigmentation, Nos
Thymus		Congestion, Nos
Unspecified	Mediastinum Nos	Inflammation, Acute/Chronic
Uterus	Endometrial Gland	Cyst, Multiple
	Fallopian Tube	Inflammation, Acute Suppurative

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 6_053

TRT#: 6

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Degeneration, Nos

Lung

Bronchiole

Hyperplasia, Lymphoid

Thyroid

Hyperplasia, C Cell

Uterus

Dilatation, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 6_054

TRT#: 6

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Liver

Lung

Bronchiole

Hyperplasia, Reticulum Cell

Cytoplasmic Change, Basophilic

Hyperplasia, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 6_055

TRT#: 6

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Hyperplasia, Reticulum Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 6_056

TRT#: 6

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Liver

Bile Duct

Hyperplasia, Focal

Lung

Bronchiole

Hyperplasia, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 6_057

TRT#: 6

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Retina

Atrophy, Diffuse

Crystalline Lens

Degeneration, Nos

Retina

Degeneration, Nos

Lung

Bronchiole

Hyperplasia, Lymphoid

Thyroid

Hyperplasia, C Cell

Uterus

Dilatation, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 6_058

TRT#: 6

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Natural Death

HISTO:

OBSERVATIONS

Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchiole	Hyperplasia, Lymphoid
Spleen		Congestion, Nos
Tongue		Cyst, Epidermal Inclusion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 6_059

TRT#: 6

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Thyroid		Hyperplasia, C Cell
Trachea	Gland	Cyst, Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 6_060

TRT#: 6

SEX: Female

DAY ON TEST:

DOSE: 025.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Ovary		Cyst, Parovarian
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 7_051

TRT#: 7

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Retina

Atrophy, Diffuse

Crystalline Lens

Cataract

Retina

Degeneration, Nos

Heart

Inflammation, Acute/Chronic

Lung

Bronchiole

Hyperplasia, Lymphoid

Uterus

Dilatation, Nos

Endometrial Gland

Hyperplasia, Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 7_052

TRT#: 7

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung	Bronchiole	Hyperplasia, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 7_053

TRT#: 7

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Liver

Lung

Ovary

Bronchiole

Hyperplasia, Reticulum Cell

Inflammation, Granulomatous Focal

Hyperplasia, Lymphoid

Cyst, Parovarian

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 7_054

TRT#: 7

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Liver

Lung

Ovary

Pituitary gland

Uterus

Bile Duct

Bronchiole

Anterior Pituitary

Hyperplasia, Reticulum Cell

Cytoplasmic Change, Basophilic

Hyperplasia, Focal

Hyperplasia, Lymphoid

Cyst, Parovarian

Adenoma, Nos

Dilatation, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 7_055

TRT#: 7

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Liver

Bile Duct

Hyperplasia, Focal

Inflammation, Granulomatous Focal

Pancreas

Acinus

Atrophy, Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 7_056

TRT#: 7

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Liver	Bile Duct	Hyperplasia, Focal Inflammation, Granulomatous Focal
Lung	Bronchiole	Hyperplasia, Lymphoid
Ovary		Cyst, Parovarian
Thyroid		Cyst, Follicular Nos Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 7_057

TRT#: 7

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Lung

Ovary

Bronchiole

Hyperplasia, Reticulum Cell

Hyperplasia, Lymphoid

Cyst, Parovarian

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 7_058

TRT#: 7

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Hyperplasia, Reticulum Cell

Liver

Inflammation, Granulomatous Focal

Lung

Bronchiole

Hyperplasia, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 7_059

TRT#: 7

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Liver

Bile Duct

Hyperplasia, Focal

Lung

Bronchiole

Hyperplasia, Lymphoid

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 7_060

TRT#: 7

SEX: Female

DAY ON TEST:

DOSE: 050.0 MG/KG

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Inflammation, Granulomatous Focal
Lung	Bronchiole	Hyperplasia, Lymphoid
		Inflammation, Interstitial
Ovary		Cyst, Parovarian
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 8_051

TRT#: 8

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Degeneration, Nos

Lung

Bronchiole

Hyperplasia, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 8_052

TRT#: 8

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Lung		Aspiration, Foreign Body
	Bronchiole	Hyperplasia, Lymphoid
		Inflammation, Interstitial
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 8_053

TRT#: 8

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Lung

Bronchiole

Hyperplasia, Lymphoid
Perivascular Cuffing

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 8_054

TRT#: 8

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Liver

Lung

Lymph node

Bile Duct

Bronchiole

Mandibular Lymph Node

Hyperplasia, Reticulum Cell

Hyperplasia, Focal

Hyperplasia, Lymphoid

Hemorrhage

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 8_055

TRT#: 8

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Heart

Pituitary gland

Myocardium Nos

Anterior Pituitary

Hyperplasia, Reticulum Cell

Degeneration, Nos

Cyst, Embryonal Duct

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 8_056

TRT#: 8

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Liver

Bile Duct

Hyperplasia, Focal

Lung

Bronchiole

Hyperplasia, Lymphoid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 8_057

TRT#: 8

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Bone marrow

Liver

Lung

Pancreas

Bile Duct

Bronchiole

Hyperplasia, Reticulum Cell

Hyperplasia, Focal

Hyperplasia, Lymphoid

Inflammation, Acute/Chronic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 8_058

TRT#: 8

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Eye

Cornea

Inflammation, Acute Focal

Lung

Bronchiole

Hyperplasia, Lymphoid

Pancreas

Acinus

Atrophy, Focal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 8_059

TRT#: 8

DOSE: 0

SEX: Female

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Bone marrow

Liver

Thyroid

Hyperplasia, Reticulum Cell

Inflammation, Granulomatous Focal

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C55276

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 10/26/2014

Time Report Requested: 17:52:59

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 8_060

TRT#: 8

DOSE: 0

SEX: Female

DISP: Scheduled Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Bone marrow

Lung

Pituitary gland

Bronchiole

Anterior Pituitary

Hyperplasia, Reticulum Cell

Hyperplasia, Lymphoid

Angiectasis

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****