

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**C Number:** C56100

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Female

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_001

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Blood	Blood Erythrocytes	Normoblastosis
	Blood Erythrocytes	Reticulocytosis
Clitoral gland		Adenoma, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Lung		Inflammation, Suppurative
Lymph node	Mesenteric Lymph Node	Hemosiderosis
Mammary gland		Inflammation, Suppurative
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_002

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood	Blood Erythrocytes	Reticulocytosis
Bone marrow		Hyperplasia, Granulocytic
Brain		Choroid Plexus Papilloma
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland	Mammary Duct	Distention
		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin		Squamous Cell Carcinoma
Spleen	Red Pulp	Hematopoiesis
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
Thyroid		C-Cell Carcinoma

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_003

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Granulomatous Focal
Liver		Inflammation, Granulomatous Focal
Lung		Congestion, Acute
Lymph node	Mediastinal Lymph Node	Hemorrhage
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_004

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Lung		Congestion, Acute
		Pneumonia, Aspiration
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Uterus		Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_005

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Clitoral gland

Liver

Nasal cavity

Stomach

Uterus

Mucosa

Forestomach

Retention Of Content

Cytoplasmic Change, Basophilic

Lymphocytic Inflammatory Infiltrate

Acanthosis

Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_006

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Kidney		Nephrosis, Nos
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
		Focal Cellular Change
		Inflammation, Chronic Focal
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_007

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Blood	Blood Erythrocytes	Normoblastosis
	Blood Erythrocytes	Reticulocytosis
Kidney	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Nos
Pancreas		Atrophy, Diffuse
Stomach	Mucosa	Fibrosis
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_008

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Liver  
Mammary gland

Medulla  
Myocardium Nos

Hyperplasia, Focal  
Inflammation, Chronic Focal  
Nephrosis, Nos  
Inflammation, Chronic Focal  
Adenocarcinoma, Nos  
Fibroadenoma  
Lymphocytic Inflammatory Infiltrate  
Cyst, Nos  
Fibrosis  
Endometrial Stromal Polyp  
Papillary Adenoma

Nasal cavity  
Pituitary gland  
Stomach  
Uterus

Mucosa  
Anterior Pituitary  
Mucosa  
Endometrium

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_009

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Blood	Blood Erythrocytes	Normoblastosis
Bone marrow		Hyperplasia, Granulocytic
Intestine Small	Duodenum	Endometrial Stromal Sarcoma, Metastatic
Kidney		Nephrosis, Nos
Lung		Inflammation, Suppurative
Lymph node	Mediastinal Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Mucosa	Inflammation, Suppurative
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Forestomach	Acanthosis
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Sarcoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_010

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone		Osteosclerosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Inflammation, Chronic Focal
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Stomach	Mucosa	Fibrosis
Uterus		Hematometra

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_011

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephrosis, Nos
Liver		Focal Cellular Change
		Inflammation, Chronic Focal
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
		Follicular-Cell Adenoma

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_012

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Bone marrow

Liver

Centrilobular

Centrilobular

Hyperplasia, Erythroid

Angiectasis

Degeneration, Nos

Focal Cellular Change

Hematopoiesis

Mammary gland

Mammary Duct

Distention

Nasal cavity

Mucosa

Inflammation, Suppurative

Mucosa

Lymphocytic Inflammatory Infiltrate

Pancreas

Atrophy, Nos

Spleen

Red Pulp

Congestion, Nos

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_013

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Dosing Accident

**HISTO:**

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**OBSERVATIONS**

Ear	Canal	Lymphocytic Inflammatory Infiltrate
Liver		Cytoplasmic Change, Basophilic
Lung		Congestion, Acute
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Uterus	Endometrium	Metaplasia, Squamous

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_014

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Liver	Centrilobular	Degeneration, Nos
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar/Bronchiolar Adenoma
Lymph node	Mesenteric Lymph Node	Histiocytosis
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Stomach	Mucosa	Fibrosis
Unspecified		Fibroma
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_015

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Larynx		Inflammation, Chronic Focal
Liver		Cytoplasmic Change, Basophilic Cytoplasmic Vacuolization Inflammation, Chronic Focal
Lung		Congestion, Acute Pneumonia, Aspiration
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma Inflammation, Suppurative
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Granulosa-Cell Tumor
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_016

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lymph node	Mesenteric Lymph Node	Hemorrhage
	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Adenocarcinoma, Nos
	Mammary Duct	Distention
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hemorrhage
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_017

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Accidentally Killed

**HISTO:**

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**OBSERVATIONS**

Lung		Congestion, Acute
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Spleen		Plasmacytosis
Unspecified	Neck	Inflammation, Nos
	Shoulder	Inflammation, Suppurative

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_018

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Hyperplasia, Focal
Clitoral gland		Inflammation, Chronic Focal
Ear	Canal Canal	Inflammation, Suppurative Lymphocytic Inflammatory Infiltrate
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Inflammation, Chronic Focal
Lymph node	Mandibular Lymph Node Mandibular Lymph Node	Hyperplasia, Lymphoid Inflammation, Acute Suppurative
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary Anterior Pituitary	Adenoma, Nos Cyst, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_019

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Nasal cavity

Mucosa

Inflammation, Suppurative

Mucosa

Lymphocytic Inflammatory Infiltrate

Stomach

Mucosa

Fibrosis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Liver		Cytoplasmic Change, Basophilic
Lung		Inflammation, Granulomatous
Mammary gland		Adenoma, Nos
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
Tongue		Papilloma, Nos
Unspecified	Multiple Organs Nos	Inflammation, Suppurative
	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_021

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Ear	Canal	Lymphocytic Inflammatory Infiltrate
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_022

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic Inflammation, Chronic Focal
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Intermedia	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 1\_023

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Liver		Cytoplasmic Change, Basophilic
Lung		Pneumonia, Aspiration
Nasal cavity	Mucosa	Inflammation, Suppurative
Trachea		Inflammation, Suppurative
Zymbal gland		Carcinoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 1\_024

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Congestion, Nos

Heart

Myocardium Nos

Degeneration, Nos

Liver

Angiectasis

Cytoplasmic Change, Basophilic

Lung

Congestion, Acute

Pneumonia, Aspiration

Nasal cavity

Mucosa

Inflammation, Suppurative

Uterus

Mucosa

Lymphocytic Inflammatory Infiltrate

Endometrium

Inflammation, Suppurative

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_025

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Liver

Cytoplasmic Change, Basophilic

Inflammation, Chronic Focal

Lung

Congestion, Acute

Mammary gland

Fibroadenoma

Hyperplasia, Nos

Nasal cavity

Mucosa

Lymphocytic Inflammatory Infiltrate

Pituitary gland

Anterior Pituitary

Adenoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_026

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Mammary gland		Atrophy, Nos
		Fibroadenoma
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Spleen	Follicles	Atrophy, Diffuse
Stomach	Mucosa	Fibrosis
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 1\_027

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Suppurative
Nasal cavity	Mucosa	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_028

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Dosing Accident

**HISTO:**

---

**OBSERVATIONS**

Liver

Lung

Bronchus

Cytoplasmic Change, Basophilic

Edema, Nos

Fibrosis

Histiocytosis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C56100

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Penicillin VK

CAS Number: 132-98-9

Date Report Requested: 10/26/2014

Time Report Requested: 14:40:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_029

TRT#: 1

SEX: Female

DAY ON TEST:

DOSE: 001.0 G/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Blood	Blood Erythrocytes	Normoblastosis
	Blood Erythrocytes	Reticulocytosis
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Eye		Phthisis Bulbi
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver	Centrilobular	Degeneration, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_030

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Mammary gland	Mammary Duct	Distention
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Unspecified	Head	Neurilemoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_031

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Heart	Myocardium Nos	Degeneration, Nos
Liver	Centrilobular	Degeneration, Nos
		Hematopoiesis
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Hyperplasia, Nos
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 1\_032

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Bone marrow		Hyperplasia, Erythroid
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Cyst, Nos
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Fibroadenoma
		Hyperplasia, Nos
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 1\_033

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Dosing Accident

**HISTO:**

---

**OBSERVATIONS**

Lung

Congestion, Acute

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_034

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Erythroid
Intestine Large	Rectum	Distention
Kidney		Nephrosis, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Hydrometra

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_035

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Erythroid
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Lung		Congestion, Acute
		Inflammation, Interstitial
		Pneumonia, Aspiration
Mammary gland	Mammary Duct	Distention
		Hyperplasia, Nos
Nasal cavity	Mucosa	Inflammation, Suppurative
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Congestion, Nos
	Anterior Pituitary	Hemosiderosis
Stomach	Mucosa	Fibrosis
	Forestomach	Hyperkeratosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 1\_036

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Lung

Hemorrhage

Pneumonia, Aspiration

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 1\_037

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Kidney		Nephrosis, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Mucosa	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Uterus		Endometrial Stromal Sarcoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_038

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic Inflammation, Chronic Focal
Lymph node	Mesenteric Lymph Node	Edema, Nos
	Mandibular Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_039

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Harderian gland

Hardarian Gland

Lymphocytic Inflammatory Infiltrate

Lung

Congestion, Acute

Pancreas

Atrophy, Nos

Stomach

Forestomach

Acanthosis

Forestomach

Hyperkeratosis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_040

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Liver		Focal Cellular Change
		Inflammation, Chronic Focal
Lung		Congestion, Acute
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Uterus		Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_041

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Intestine Small  
Kidney  
Liver

Mesentery Nos  
Tubule

Necrosis, Fat  
Hypoplasia, Nos  
Cytoplasmic Change, Basophilic  
Inflammation, Chronic Focal

Lymph node

Mandibular Lymph Node  
Mandibular Lymph Node

Hemorrhage  
Hyperplasia, Lymphoid

Mammary gland

Mammary Duct

Distention

Nasal cavity

Mucosa

Fibroadenoma  
Lymphocytic Inflammatory Infiltrate

Pancreas

Islets

Islet-Cell Adenoma

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Anterior Pituitary

Cyst, Nos

Anterior Pituitary

Hyperplasia, Nos

Stomach

Mucosa

Fibrosis

Thyroid

Hyperplasia, C Cell

Uterus

Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 1\_042

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Intestine Small  
Kidney  
Liver  
Lymph node  
Nasal cavity  
  
Pituitary gland  
  
Stomach  
Thyroid

Medulla  
Colon  
Mesentery Nos  
  
Mandibular Lymph Node  
Mucosa  
Mucosa  
Anterior Pituitary  
Anterior Pituitary  
Mucosa

Pheochromocytoma  
Parasitism  
Necrosis, Fat  
Nephrosis, Nos  
Focal Cellular Change  
Hyperplasia, Lymphoid  
Inflammation, Suppurative  
Lymphocytic Inflammatory Infiltrate  
Cyst, Nos  
Hyperplasia, Nos  
Fibrosis  
C-Cell Adenoma  
Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_043

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Clitoral gland

Medulla

Pheochromocytoma

Heart  
Kidney  
Liver

Myocardium Nos

Adenoma, Nos

Carcinoma, Nos

Degeneration, Nos

Nephrosis, Nos

Cytoplasmic Change, Basophilic

Inflammation, Chronic Focal

Mammary gland

Fibroadenoma

Nasal cavity

Mucosa

Inflammation, Suppurative

Pituitary gland

Mucosa

Lymphocytic Inflammatory Infiltrate

Stomach

Anterior Pituitary

Adenoma, Nos

Thyroid

Mucosa

Fibrosis

Uterus

C-Cell Adenoma

Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_044

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Liver

Centrilobular

Congestion, Acute

Lung

Congestion, Acute

Inflammation, Interstitial

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Penicillin VK  
**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:40:57  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_045

**TRT#:** 1  
**DOSE:** 001.0 G/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hematopoiesis
Blood	Blood Erythrocytes	Normoblastosis
Bone marrow		Fibrosis, Myelo
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Kidney		Nephrosis, Nos
Liver		Hematopoiesis
		Necrosis, Focal
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hemorrhage
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
	Forestomach	Hyperkeratosis
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 1\_046

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Esophagus

Liver

Lung

Unspecified

Neck

Ulcer, Nos

Cytoplasmic Vacuolization

Congestion, Acute

Inflammation, Suppurative

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_047

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Granulocytic
Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung		Pneumonia, Aspiration
Mammary gland	Mammary Duct	Distention
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 1\_048

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Liver		Inflammation, Chronic Focal
Mammary gland		Adenocarcinoma, Nos
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_049

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos Cortex Nos Medulla	Congestion, Nos Cyst, Nos Hematopoiesis Hyperplasia, Focal
Bone marrow		Hyperplasia, Erythroid
Clitoral gland		Inflammation, Suppurative
Intestine Large	Colon	Parasitism
Liver		Focal Cellular Change Hematopoiesis
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 1\_050

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 001.0 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Clitoral gland		Adenoma, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas	Duct Nos	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_001

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Congestion, Nos Hyperplasia, Focal
Blood	Cortex Nos	Hyperplasia, Nos
Kidney	Blood Erythrocytes	Normoblastosis
Liver	Tubule Centrilobular Bile Duct	Nephrosis, Nos Pigmentation, Nos Degeneration, Nos Hyperplasia, Nos
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Stomach	Anterior Pituitary Forestomach	Hyperplasia, Nos Acanthosis
Unspecified	Mucosa Multiple Organs Nos	Fibrosis Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_002

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Clitoral gland		Retention Of Content
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Lung		Inflammation, Interstitial
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_003

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hematopoiesis
	Medulla	Pheochromocytoma
Blood	Blood Erythrocytes	Normoblastosis
	Blood Erythrocytes	Reticulocytosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
	Tubule	Pigmentation, Nos
Liver	Centrilobular	Necrosis, Nos
Mammary gland	Mammary Duct	Distention
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Hydrometra

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_004

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Mammary gland		Adenocarcinoma, Nos
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_005

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Intestine Large	Colon	Parasitism
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Suppurative
Mammary gland	Mammary Duct	Distention
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
	Islets	Islet-Cell Adenoma
Trachea		Inflammation, Suppurative

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_006

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Mammary gland	Mammary Duct	Distention
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Hemorrhage
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_007

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Clitoral gland		Inflammation, Chronic Focal
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Uterus		Endometrial Stromal Polyp
		Hydrometra

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_008

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Ear	Canal	Lymphocytic Inflammatory Infiltrate
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Neoplastic Nodule
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Forestomach	Acanthosis
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_009

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic Inflammation, Chronic Focal
Mammary gland	Mammary Duct	Distention
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Stomach	Mucosa	Fibrosis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_010

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mesenteric Lymph Node	Hemorrhage
Mammary gland	Mammary Duct	Distention
		Fibroadenoma
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_011

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Bone	Mandible	Ameloblastoma
Liver	Centrilobular	Degeneration, Nos
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_012

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney	Tubule	Atrophy, Diffuse
		Inflammation, Interstitial
Liver	Centrilobular	Degeneration, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Spleen		Depletion, Lymphoid
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
	Forestomach	Hyperkeratosis
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_013

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma, Malignant
Intestine Large	Cecum, Colon	Hypertrophy, Focal
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Mammary gland	Mammary Duct	Distention Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Stomach	Forestomach	Acanthosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_014

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Brain	Thalamus	Carcinoma, Nos, Invasive
Clitoral gland		Inflammation, Chronic Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Mammary gland	Mammary Duct	Distention
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_015

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Clitoral gland		Carcinoma, Nos
Eye		Phthisis Bulbi
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Mammary gland	Mammary Duct	Distention
		Fibroadenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_016

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Lung

Pituitary gland

Stomach

Uterus

Anterior Pituitary

Mucosa

Congestion, Acute

Cyst, Nos

Fibrosis

Hydrometra

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_017

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Clitoral gland		Adenoma, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephrosis, Nos
Liver		Inflammation, Chronic Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland	Mammary Duct	Distention
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_018

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Accidentally Killed

**HISTO:**

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**OBSERVATIONS**

Lung

Congestion, Acute

Nasal cavity

Mucosa

Lymphocytic Inflammatory Infiltrate

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_019

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Erythroid
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Lung		Lymphocytic Inflammatory Infiltrate
Lymph node	Mediastinal Lymph Node	Hemorrhage
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Peritoneum	Peritoneal Cavity Nos	Neurilemoma, Malignant
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
	Forestomach	Hyperkeratosis
Trachea		Inflammation, Chronic
Unspecified		Neurilemoma, Metastatic
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_020

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Liver		Cytoplasmic Change, Basophilic Inflammation, Chronic Focal
Lung		Inflammation, Interstitial
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Lymphoid
Mammary gland	Mammary Duct	Distention Fibroadenoma
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Forestomach	Acanthosis
Thyroid		Hyperplasia, C Cell
Uterus		Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_021

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Intestine Large

Colon

Parasitism

Intestine Small

Mesentery Nos

Necrosis, Fat

Liver

Cytoplasmic Change, Basophilic

Lymph node

Mediastinal Lymph Node

Hemorrhage

Mammary gland

Mammary Duct

Distention

Nasal cavity

Mucosa

Fibroadenoma

Thyroid

Lymphocytic Inflammatory Infiltrate

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_022

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Mammary gland	Mammary Duct	Distention
		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Penicillin VK  
**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:40:57  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_023

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Cyst, Nos
		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mediastinal Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Nos
Spleen	Red Pulp	Congestion, Nos
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_024

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Liver

Focal Cellular Change

Lung

Inflammation, Chronic Focal

Pituitary gland

Anterior Pituitary

Congestion, Acute

Adenoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Penicillin VK  
**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:40:57  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_025

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood	Blood Erythrocytes	Normoblastosis
Bone marrow		Hyperplasia, Erythroid
		Hyperplasia, Granulocytic
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Kidney		Nephrosis, Nos
Liver	Bile Duct	Hyperplasia, Nos
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_026

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Kidney		Nephrosis, Nos
Liver		Focal Cellular Change
		Inflammation, Chronic Focal
Lung		Congestion, Acute
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_027

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Nasal cavity

Mucosa

Inflammation, Suppurative

Mucosa

Lymphocytic Inflammatory Infiltrate

Stomach

Mucosa

Fibrosis

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_028

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Congestion, Acute

Liver

Centrilobular

Congestion, Acute

Nasal cavity

Mucosa

Foreign Body, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_029

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hematoma, Nos
	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Granulocytic
Eye		Phthisis Bulbi
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Spleen	Red Pulp	Hematopoiesis
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified		Neurilemoma
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_030

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Intestine Large	Colon	Parasitism
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_031

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone	Tarsal Joint	Ankylosis
	Carpometacarpal Joint	Inflammation, Chronic
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Lymphocytic Inflammatory Infiltrate
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
	Forestomach	Lymphocytic Inflammatory Infiltrate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_032

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization
Blood	Blood Erythrocytes	Normoblastosis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver	Centrilobular	Degeneration, Nos
	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hemorrhage
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_033

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Intestine Small

Mesentery Nos

Necrosis, Fat

Liver

Centrilobular

Degeneration, Nos

Mammary gland

Mammary Duct

Distention

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Unspecified

Anterior Pituitary

Cyst, Nos

Multiple Organs Nos

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_034

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Clitoral gland		Retention Of Content
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_035

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Granulocytic
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Intestine Large	Colon	Parasitism
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver	Bile Duct	Hyperplasia, Nos
		Inflammation, Chronic Focal
Lung		Lymphocytic Inflammatory Infiltrate
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Angiectasis
Stomach	Mucosa	Fibrosis
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Hydrometra
	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_036

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Medulla

Hyperplasia, Focal  
Nephrosis, Nos  
Cytoplasmic Change, Basophilic  
Inflammation, Chronic Focal

Mammary gland

Mammary Duct

Adenocarcinoma, Nos  
Distention  
Fibroadenoma

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Stomach

Mucosa

Fibrosis

Thyroid

Hyperplasia, C Cell

Unspecified

Necrosis, Fat

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_037

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Infarct, Healed
		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Mammary gland	Mammary Duct	Distention
		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_038

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Liver		Cytoplasmic Change, Basophilic Hyperplasia, Focal
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Unspecified	Head	Neurilemoma
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_039

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Clitoral gland		Inflammation, Chronic Focal
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Inflammation, Interstitial
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_040

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Eye		Phthisis Bulbi
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_041

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Lung

Congestion, Acute

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 2\_042

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Harderian gland

Harderian Gland

Lymphocytic Inflammatory Infiltrate

Heart

Myocardium Nos

Degeneration, Nos

Liver

Cytoplasmic Change, Basophilic

Inflammation, Chronic Focal

Nasal cavity

Mucosa

Lymphocytic Inflammatory Infiltrate

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Stomach

Mucosa

Fibrosis

Unspecified

Head

Neurilemoma

Uterus

Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_043

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Nos
Clitoral gland		Inflammation, Suppurative
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_044

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Ear	Canal	Inflammation, Suppurative
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Lung		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 2\_045

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood	Blood Erythrocytes	Normoblastosis
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver	Centrilobular	Degeneration, Nos
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland	Mammary Duct	Distention
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Stomach	Mucosa	Fibrosis
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Penicillin VK  
**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:40:57  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_046

**TRT#:** 2  
**DOSE:** 000.5 G/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Liver		Focal Cellular Change Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Uterus		Endometrial Stromal Polyp Hemorrhage

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Penicillin VK  
**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:40:57  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_047

**TRT#:** 2  
**DOSE:** 000.5 G/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Ear	Canal	Lymphocytic Inflammatory Infiltrate
Kidney		Nephrosis, Nos
Liver		Inflammation, Chronic Focal
	Periportal	Lymphocytic Inflammatory Infiltrate
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Carcinoma, Nos
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_048

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_049

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Bone		Osteosclerosis
Lymph node	Renal Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Hemorrhage
Stomach	Mucosa	Fibrosis
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 2\_050

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 000.5 G/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Intestine Small  
Liver

Medulla  
Mesentery Nos

Pheochromocytoma, Malignant  
Necrosis, Fat  
Cytoplasmic Change, Basophilic  
Inflammation, Chronic Focal  
Congestion, Acute  
Fibrosis

Lung  
Stomach

Mucosa

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_001

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Congestion, Acute
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Granulomatous Focal
Lung		Congestion, Acute
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Atrophy, Focal
Stomach	Mucosa	Fibrosis
Thymus		Hyperplasia, Lymphoid

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C56100

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Penicillin VK

CAS Number: 132-98-9

Date Report Requested: 10/26/2014

Time Report Requested: 14:40:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_002

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
Blood	Blood Erythrocytes	Normoblastosis
Blood vessel	Hepatic Vein	Thrombosis, Nos
Bone marrow		Hyperplasia, Erythroid
		Hyperplasia, Granulocytic
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen		Depletion, Lymphoid
	Red Pulp	Hematopoiesis
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
	Forestomach	Ulcer, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_003

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Erythroid
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Stomach	Mucosa	Fibrosis
Uterus		Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_004

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Eye	Retina	Degeneration, Nos
Harderian gland	Hardarian Gland	Lymphocytic Inflammatory Infiltrate
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Hematopoiesis
Lung		Inflammation, Interstitial
Lymph node	Mesenteric Lymph Node	Hemosiderosis
Mammary gland	Mammary Duct	Distention
		Fibroadenoma
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_005

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization
Bone marrow		Hyperplasia, Erythroid
		Hyperplasia, Granulocytic
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lymph node	Mediastinal Lymph Node	Hemosiderosis
	Mandibular Lymph Node	Plasmacytosis
Mammary gland		Adenocarcinoma, Nos
		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin		Cyst, Epidermal Inclusion
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_006

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Lung		Congestion, Acute
Mammary gland		Adenoma, Nos
	Mammary Duct	Distention
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hemorrhage
Thymus		Congestion, Acute

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_007

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Lung		Inflammation, Interstitial
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Ovary		Cyst, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Stomach	Mucosa	Fibrosis
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Penicillin VK  
**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:40:57  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_008

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos	Cytoplasmic Vacuolization Hyperplasia, Focal Hyperplasia, Erythroid
Bone marrow		Astrocytoma
Brain		Inflammation, Chronic Focal
Clitoral gland		Degeneration, Nos
Heart	Myocardium Nos	Hyperplasia, Lymphoid
Intestine Small	Peyers Patch	Nephrosis, Nos
Kidney		Cytoplasmic Change, Basophilic
Liver		Fibroadenoma
Mammary gland		Lymphocytic Inflammatory Infiltrate
Nasal cavity	Mucosa	Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Fibrosis
Stomach	Mucosa	Leukemia, Mononuclear Cell
Unspecified	Multiple Organs Nos	

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_009

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland Clitoral gland	Cortex Nos	Hyperplasia, Focal Inflammation, Chronic Focal Retention Of Content
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Plasmacytosis
Ovary		Thecoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_010

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Intestine Large	Colon	Parasitism
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C56100  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK  
**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:40:57  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_011

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Congestion, Acute
		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Hemorrhage
	Bile Duct	Hyperplasia, Nos
Lung	Pleura Nos	Inflammation, Chronic Focal
Lymph node	Mediastinal Lymph Node	Hemorrhage
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: C56100

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Penicillin VK

CAS Number: 132-98-9

Date Report Requested: 10/26/2014

Time Report Requested: 14:40:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_012

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hematopoiesis
Blood	Blood Erythrocytes	Normoblastosis
	Blood Erythrocytes	Reticulocytosis
Bone marrow		Hyperplasia, Erythroid
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Hemosiderosis
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Hematopoiesis
		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
		Inflammation, Suppurative
Lung		Plasmacytosis
Lymph node	Mandibular Lymph Node	Fibroadenoma
Mammary gland		Lymphocytic Inflammatory Infiltrate
Nasal cavity	Mucosa	Atrophy, Nos
Pancreas		Adenoma, Nos
Pituitary gland	Anterior Pituitary	Hamartoma
Skin	Foot And Toe Nos	Leukemia, Mononuclear Cell
Unspecified	Multiple Organs Nos	Cyst, Nos
Uterus	Endometrium	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C56100

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Penicillin VK

CAS Number: 132-98-9

Date Report Requested: 10/26/2014

Time Report Requested: 14:40:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_013

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization
	Cortex Nos	Necrosis, Focal
Blood	Blood Erythrocytes	Normoblastosis
	Blood Erythrocytes	Reticulocytosis
Bone marrow		Hyperplasia, Erythroid
		Hyperplasia, Granulocytic
Kidney		Nephrosis, Nos
	Tubule	Pigmentation, Nos
Liver		Atrophy, Focal
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
	Mediastinal Lymph Node	Hyperplasia, Lymphoid
	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Mammary gland	Mammary Duct	Distention
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_014

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Liver

Centrilobular

Angiectasis

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_015

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Harderian gland	Hardarian Gland	Lymphocytic Inflammatory Infiltrate
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Hematopoiesis
Lymph node	Mediastinal Lymph Node	Hemosiderosis
Mammary gland		Adenocarcinoma, Nos
	Mammary Duct	Distention
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Nos
Salivary gland		Regeneration, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C56100

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Penicillin VK

CAS Number: 132-98-9

Date Report Requested: 10/26/2014

Time Report Requested: 14:40:57

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_016

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Blood	Blood Erythrocytes	Normoblastosis
	Blood Erythrocytes	Reticulocytosis
Bone marrow		Hyperplasia, Erythroid
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Angiectasis
	Bile Duct	Hyperplasia, Nos
	Centrilobular	Necrosis, Nos
Lung		Inflammation, Granulomatous
Lymph node	Mediastinal Lymph Node	Inflammation, Granulomatous Focal
	Mandibular Lymph Node	Plasmacytosis
Mammary gland	Mammary Duct	Distention
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_017

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Congestion, Nos Cortical Adenoma
Bone marrow	Cortex Nos	Hematopoiesis Hyperplasia, Erythroid
Intestine Small	Intestinal Villus, Ileum Mesentery Nos	Atrophy, Nos Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic Hematopoiesis
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pituitary gland	Anterior Pituitary Anterior Pituitary	Cyst, Nos Hyperplasia, Nos
Salivary gland		Inflammation, Chronic Focal
Skin		Keratoacanthoma
Unspecified	Multiple Organs Nos	Fibroma Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_018

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Bone	Mandible	Abscess, Chronic
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Lung		Histiocytosis
Mammary gland	Mammary Duct	Distention
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hemosiderosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_019

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Regeneration, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_020

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Ear	Canal	Lymphocytic Inflammatory Infiltrate
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Adenoma, Nos
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis
Uterus		Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Penicillin VK  
**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:40:57  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_021

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos Medulla Medulla	Cyst, Nos Hyperplasia, Focal Hyperplasia, Focal Pheochromocytoma
Blood	Blood Erythrocytes	Reticulocytosis
Bone marrow		Hyperplasia, Granulocytic
Clitoral gland		Carcinoma, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Liver		Focal Cellular Change
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Forestomach Mucosa	Acanthosis Fibrosis
Thyroid		C-Cell Adenoma Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_022

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Harderian gland

Hardarian Gland

Atrophy, Nos

Kidney

Nephrosis, Nos

Liver

Cytoplasmic Change, Basophilic

Mammary gland

Fibroadenoma

Nasal cavity

Mucosa

Lymphocytic Inflammatory Infiltrate

Pituitary gland

Anterior Pituitary

Carcinoma, Nos

Stomach

Mucosa

Fibrosis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_023

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Mammary gland		Adenocarcinoma, Nos
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Nos
Stomach	Mucosa	Fibrosis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_024

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Kidney		Cyst, Nos
Liver		Cytoplasmic Change, Basophilic Hematopoiesis
Lung		Adenocarcinoma, Nos, Metastatic
Lymph node	Mediastinal Lymph Node	Hemorrhage
Mammary gland		Adenocarcinoma, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:57

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_025

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood	Blood Erythrocytes	Reticulocytosis
Bone marrow		Hyperplasia, Granulocytic
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Adenocarcinoma, Nos
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Spleen	Red Pulp	Hematopoiesis
Stomach	Mucosa	Fibrosis
Unspecified	Axilla	Fibroma
		Lipoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Penicillin VK  
**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:40:58  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_026

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Inflammation, Chronic Focal
Lymph node	Mediastinal Lymph Node	Hemorrhage
Mammary gland		Galactocele
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Cyst, Ultimobranchial
Uterus		Endometrial Stromal Polyp

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_027

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood	Blood Erythrocytes	Normoblastosis
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Cytoplasmic Vacuolization
Mammary gland	Mammary Duct	Distention
Spleen	Red Pulp	Congestion, Nos
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
	Forestomach	Ulcer, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_028

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Plasmacytosis
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_029

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Kidney		Nephrosis, Nos
Liver		Focal Cellular Change
Mammary gland		Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Spleen	Red Pulp	Atrophy, Diffuse
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Vagina		Inflammation, Acute Suppurative

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_030

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic Hyperplasia, Nos
	Bile Duct	Inflammation, Interstitial
Lung		Hyperplasia, Lymphoid
Lymph node	Mandibular Lymph Node	Lymphocytic Inflammatory Infiltrate
Nasal cavity	Mucosa	Polyp, Nos
Ovary		Atrophy, Nos
Pancreas		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Cystic
Uterus	Endometrium	

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_031

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Kidney		Nephrosis, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lung	Bronchus	Hyperplasia, Lymphoid
		Inflammation, Granulomatous
Mammary gland	Mammary Duct	Distention
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
		Follicular-Cell Carcinoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_032

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Papilla	Necrosis, Nos
		Pyelonephritis, Acute
Liver		Cytoplasmic Change, Basophilic
Lung		Congestion, Acute
		Edema, Nos
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Thymus		Hemorrhage
Urinary bladder		Hemorrhage

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_033

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Kidney

Nephrosis, Nos

Liver

Inflammation, Chronic Focal

Lymph node

Mesenteric Lymph Node

Hyperplasia, Lymphoid

Mammary gland

Mammary Duct

Distention

Nasal cavity

Mucosa

Lymphocytic Inflammatory Infiltrate

Pituitary gland

Anterior Pituitary

Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_034

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Intestine Small

Mesentery Nos

Necrosis, Fat

Spleen

Red Pulp

Hemosiderosis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_035

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Blood	Blood Erythrocytes	Reticulocytosis
Bone marrow		Hyperplasia, Granulocytic
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney		Nephrosis, Nos
Liver	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Uterus		Endometrial Stromal Polyp
Vagina		Endometrial Stromal Sarcoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_036

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Kidney		Nephrosis, Nos
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Chronic Focal
		Lymphocytic Inflammatory Infiltrate
Lymph node	Mediastinal Lymph Node	Hemorrhage
Nasal cavity	Mucosa	Inflammation, Suppurative
	Mucosa	Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Cyst, Nos
Spleen	Red Pulp	Hemosiderosis
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_037

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Mammary gland		Fibroadenoma
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Nos
Skin		Cyst, Epidermal Inclusion
Stomach	Mucosa	Fibrosis
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_038

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos Medulla	Cytoplasmic Vacuolization Hyperplasia, Focal Hyperplasia, Focal
Clitoral gland		Hyperplasia, Focal Inflammation, Suppurative
Ear	Canal	Lymphocytic Inflammatory Infiltrate
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Lung		Lymphocytic Inflammatory Infiltrate
Mammary gland	Mammary Duct	Distention Fibroadenoma
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_039

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Kidney

Cyst, Nos

Vagina

Nephrosis, Nos

Endometrial Stromal Sarcoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_040

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone	Scapula	Osteosarcoma
Intestine Large	Colon	Parasitism
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
	Mammary Duct	Hyperplasia, Polypoid
Nasal cavity	Mucosa	Lymphocytic Inflammatory Infiltrate
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_041

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
Lung		Alveolar/Bronchiolar Adenoma
		Lymphocytic Inflammatory Infiltrate
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Mucosa	Fibrosis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_042

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Brain		Hydrocephalus, Internal
Intestine Small	Ileum, Ileum	Distention
Kidney		Nephrosis, Nos
Mammary gland		Inflammation, Chronic Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen		Depletion, Lymphoid
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_043

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Clitoral gland

Heart

Kidney

Liver

Nasal cavity

Pituitary gland

Myocardium Nos

Bile Duct

Mucosa

Anterior Pituitary

Inflammation, Chronic Focal

Degeneration, Nos

Nephrosis, Nos

Cytoplasmic Change, Basophilic

Hyperplasia, Nos

Lymphocytic Inflammatory Infiltrate

Adenoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_044

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Intestine Large  
Kidney  
Liver

Colon

Parasitism  
Nephrosis, Nos  
Cytoplasmic Change, Basophilic  
Inflammation, Chronic Focal

Lymph node

Mandibular Lymph Node  
Mediastinal Lymph Node

Hyperplasia, Lymphoid  
Hyperplasia, Lymphoid

Mammary gland  
Ovary

Fibroadenoma  
Cyst, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Stomach

Mucosa

Fibrosis

Thyroid

Hyperplasia, C Cell

Uterus

Endometrium

Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

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**ANIMAL ID:** 3\_045

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Granulocytic
Kidney		Nephrosis, Nos
Liver		Focal Cellular Change
		Inflammation, Chronic Focal
Mammary gland	Mammary Duct	Distention
		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hemosiderosis
Stomach	Forestomach	Acanthosis
	Mucosa	Fibrosis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

---

**ANIMAL ID:** 3\_046

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephrosis, Nos

Liver

Cytoplasmic Change, Basophilic

Lung

Inflammation, Interstitial

Mammary gland

Fibroadenoma

Nasal cavity

Mucosa

Lymphocytic Inflammatory Infiltrate

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Stomach

Mucosa

Fibrosis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_047

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood	Blood Erythrocytes	Normoblastosis
	Blood Erythrocytes	Reticulocytosis
Liver		Bile Duct Adenoma
	Bile Duct	Hyperplasia, Nos
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Atrophy, Diffuse
Stomach	Mucosa	Fibrosis
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_048

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:**

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Congestion, Nos
Clitoral gland		Inflammation, Suppurative
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Inflammation, Chronic Focal
Mammary gland		Inflammation, Suppurative
Nasal cavity	Mucosa	Inflammation, Suppurative
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Nos
Spleen		Hyperplasia, Lymphoid
Stomach	Mucosa	Fibrosis
Thyroid		C-Cell Adenoma
Uterus		Endometrial Stromal Polyp

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C56100

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Penicillin VK

CAS Number: 132-98-9

Date Report Requested: 10/26/2014

Time Report Requested: 14:40:58

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_049

TRT#: 3

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Granulocytic
Harderian gland	Harderian Gland	Lymphocytic Inflammatory Infiltrate
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephrosis, Nos
Liver		Cytoplasmic Change, Basophilic
		Inflammation, Chronic Focal
Lung		Inflammation, Chronic Focal
Lymph node	Mediastinal Lymph Node	Hemorrhage
Ovary		Cyst, Nos
Pancreas		Atrophy, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Skin		Basal-Cell Carcinoma
Spleen	Red Pulp	Leukemia, Mononuclear Cell
Stomach	Mucosa	Fibrosis
Thyroid		Hyperplasia, C Cell
Unspecified	Flank	Fibrosarcoma
Urinary bladder		Distention
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C56100

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Penicillin VK

**CAS Number:** 132-98-9

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:40:58

**First Dose M/F:** NA / NA

**Lab:** NA

**ANIMAL ID:** 3\_050

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Intestine Small

Jejunum

Dilatation, Nos

Kidney

Mesentery Nos

Necrosis, Fat

Liver

Tubule

Hemosiderosis

Lymph node

Nephrosis, Nos

Atrophy, Focal

Bile Duct

Hyperplasia, Nos

Mandibular Lymph Node

Hemorrhage

Mesenteric Lymph Node

Hemorrhage

Mediastinal Lymph Node

Hemosiderosis

Mediastinal Lymph Node

Histiocytosis

Mammary gland

Fibroadenoma

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Stomach

Mucosa

Fibrosis

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Uterus

Mediastinum Nos

Necrosis, Fat

Hydrometra

PRIMARY CAUSE OF DEATH

-

**\*\* END OF REPORT \*\***

\* PROTOCOL REQUIRED TISSUE