

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

<b>C Number:</b>	C20108A
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Male
<b>PWG Approval Date</b>	NONE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 88
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 1

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Pituitary Gland	Spleen	Testes
Urinary Bladder			

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**MISSING**

Prostate, Lateral Lobe	Prostate, Ventral Lobe		
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**OBSERVATIONS**

Kidney	Cortex, Renal Tubule	Regeneration	Focal, Minimal
Liver		Inflammation	Focal, Minimal
Prostate, Anterior Lobe		Hyperplasia	Grade 4, Focal
Prostate, Dorsal Lobe		Hyperplasia	Grade 4, Multifocal
Seminal Vesicle		Hyperplasia	Grade 3, Focal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 86
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 2

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Prostate, Ventral Lobe

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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 4, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 5, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 2, Diffuse
Seminal Vesicle	Hyperplasia	Grade 2, Multifocal
	Hyperplasia	Papillary

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 57
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 3

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Pituitary Gland	Spleen
Urinary Bladder			

---

**OBSERVATIONS**

Liver	Inflammation	Focal, Minimal
Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Diffuse
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Multifocal
Seminal Vesicle	Hyperplasia	Grade 3, Multifocal
Testes	Atrophy	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 85
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 4

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Prostate, Ventral Lobe

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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 4, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 5, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Seminal Vesicle	Hyperplasia	Grade 3, Focal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 87
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 5

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Spleen	Testes
Urinary Bladder			

---

**MISSING**

Pituitary Gland	Prostate, Ventral Lobe
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**OBSERVATIONS**

Liver	Inflammation	Focal, Minimal
Prostate, Anterior Lobe	Hyperplasia	Grade 3, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 4, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Seminal Vesicle	Hyperplasia	Grade 3, Multifocal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 87
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 6

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Spleen	Testes		

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**MISSING**

Prostate, Ventral Lobe	Urinary Bladder		
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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 4, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 5, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Focal
Seminal Vesicle	Hyperplasia	Grade 3, Multifocal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 89
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 7

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Pituitary Gland	Spleen
Testes	Urinary Bladder		

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**OBSERVATIONS**

Liver	Inflammation	Focal, Minimal
Prostate, Anterior Lobe	Hyperplasia	Grade 4, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 5, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 4, Focal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Diffuse
Seminal Vesicle	Hyperplasia	Papillary

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 87
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 8

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Pituitary Gland	Seminal Vesicle	Spleen
Testes	Urinary Bladder		

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**OBSERVATIONS**

Kidney	Medulla, Renal Tubule	Dilatation	Focal, Minimal
Liver		Inflammation	Focal, Minimal
Prostate, Anterior Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe		Hyperplasia	Grade 3, Focal
Prostate, Lateral Lobe		Hyperplasia	Grade 3, Diffuse
Prostate, Ventral Lobe		Hyperplasia	Grade 3, Focal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 88
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 9

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Prostate, Lateral Lobe

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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Focal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Diffuse
Seminal Vesicle	Hyperplasia	Grade 3, Multifocal

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**PRIMARY CAUSE OF DEATH** -

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**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 10	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 86
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 10

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Prostate, Lateral Lobe

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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 4, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 5, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Diffuse
Seminal Vesicle	Hyperplasia	Papillary

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 33	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 88
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 33

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Pituitary Gland	Spleen
Testes	Urinary Bladder		

---

**MISSING**

Prostate, Ventral Lobe

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**OBSERVATIONS**

Liver	Inflammation	Focal, Minimal
Prostate, Anterior Lobe	Hyperplasia	Grade 4, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 4, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Seminal Vesicle	Hyperplasia	Papillary

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 34	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 86
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 34

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Spleen	Testes
Urinary Bladder			

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**MISSING**

Pituitary Gland	Prostate, Lateral Lobe		
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**OBSERVATIONS**

Liver	Inflammation	Focal, Minimal
Prostate, Anterior Lobe	Hyperplasia	Grade 4, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 4, Focal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Diffuse
Seminal Vesicle	Hyperplasia	Grade 2, Focal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 35	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 89
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 35

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Spleen	Testes	Urinary Bladder	

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 4, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 4, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Diffuse
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Multifocal
Seminal Vesicle	Hyperplasia	Grade 2, Focal

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 36	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 86
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 36

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Seminal Vesicle
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Pituitary Gland

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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 4, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Diffuse
Prostate, Lateral Lobe	Hyperplasia	Grade 4, Focal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Diffuse

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 37	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 87
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 37

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Pituitary Gland	Spleen
Testes	Urinary Bladder		

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**MISSING**

Prostate, Ventral Lobe

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**OBSERVATIONS**

Liver	Inflammation	Focal, Minimal
Prostate, Anterior Lobe	Hyperplasia	Grade 3, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Diffuse
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Seminal Vesicle	Hyperplasia	Papillary

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 38	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 87
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 38

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Seminal Vesicle	Spleen	Testes	Urinary Bladder

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**MISSING**

Prostate, Ventral Lobe

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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe	Carcinoma	
	Hyperplasia	Grade 3, Focal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 39	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 58
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 39

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Spleen	Thymus	Urinary Bladder	

---

**OBSERVATIONS**

Prostate, Anterior Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe		Hyperplasia	Grade 2, Multifocal
Seminal Vesicle		Hyperplasia	Grade 2, Focal
Testes	Germinal Epith	Syncytial Alteration	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 40	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 33
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 40

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Liver	Mammary Gland
Pituitary Gland	Seminal Vesicle	Spleen	Stomach, Forestomach
Stomach, Glandular	Testes	Urinary Bladder	

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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 2, Diffuse
Prostate, Ventral Lobe	Hyperplasia	Grade 2, Diffuse

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 41	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 88
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 41

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Liver	Seminal Vesicle	Testes
Urinary Bladder			

---

**MISSING**

Pituitary Gland

---

**OBSERVATIONS**

Kidney	Medulla, Renal Tubule	Dilatation	Minimal
Note: KIDNEY MASS NOT PROCESSED.			
Prostate, Anterior Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe		Hyperplasia	Grade 2, Diffuse
Spleen		Hematopoietic Cell Proliferation	Moderate

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 42	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 33
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 42

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney	Liver	Pituitary Gland	Seminal Vesicle
Spleen	Testes	Urinary Bladder	

---

**OBSERVATIONS**

Epididymis	Inflammation	Granulomatous, Mild
Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Focal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Multifocal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 43	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 85
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 43

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Seminal Vesicle	Spleen	Testes	Urinary Bladder

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 5, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Diffuse
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Focal

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 44	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 88
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 44

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Pituitary Gland	Seminal Vesicle
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Prostate, Ventral Lobe

---

**OBSERVATIONS**

Liver	Tension Lipidosis	Mild
Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 45	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 32
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 45

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Eye	Pituitary Gland	Seminal Vesicle
Spleen	Testes	Urinary Bladder	

---

**OBSERVATIONS**

Kidney	Cortex, Renal Tubule	Regeneration	Focal, Minimal
Liver		Inflammation	Focal, Minimal
Prostate, Anterior Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe		Hyperplasia	Grade 3, Focal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 46	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 57
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 46

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Pituitary Gland	Seminal Vesicle
Spleen	Urinary Bladder		

---

**OBSERVATIONS**

Liver		Inflammation	Focal, Minimal
Prostate		Carcinoma	
Prostate, Anterior Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe		Hyperplasia	Grade 3, Multifocal
		Inflammation	Mild
Prostate, Ventral Lobe		Hyperplasia	Grade 3, Multifocal
Testes	Seminif Tub	Atrophy	Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 47	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 32
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 47

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Seminal Vesicle	Spleen	Testes	Urinary Bladder

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Focal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Multifocal

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 48	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 89
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 48

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Seminal Vesicle
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Pituitary Gland	Prostate, Ventral Lobe		
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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 4, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 4, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 49	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 85
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 49

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Pituitary Gland	Spleen
Testes	Urinary Bladder		

---

**MISSING**

Prostate, Dorsal Lobe	Prostate, Ventral Lobe
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**OBSERVATIONS**

Liver	Inflammation	Focal, Minimal
Prostate, Anterior Lobe	Hyperplasia	Grade 4, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
	Inflammation	Mild
Seminal Vesicle	Hyperplasia	Papillary

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 50	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 33
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 50

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Lymph Node	Pituitary Gland
Seminal Vesicle	Spleen	Urinary Bladder	

---

**OBSERVATIONS**

Liver		Inflammation	Focal, Minimal
Prostate, Anterior Lobe		Hyperplasia	Grade 3, Focal
Prostate, Dorsal Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe		Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe		Hyperplasia	Grade 3, Multifocal
Testes	Seminif Tub	Atrophy	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 51	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 57
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 51

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Eye	Kidney	Liver
Pituitary Gland	Spleen	Testes	Urinary Bladder

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Multifocal
Seminal Vesicle	Hyperplasia	Grade 2, Focal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 52	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 87
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 52

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Seminal Vesicle
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Pituitary Gland	Prostate, Ventral Lobe		
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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Focal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 53	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 58
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 53

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Seminal Vesicle	Spleen	Testes	Urinary Bladder

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 4, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Focal

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 54	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 57
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 54

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Seminal Vesicle
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Pituitary Gland

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Focal
Prostate, Ventral Lobe	Hyperplasia	Grade 2, Multifocal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 55	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 87
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 55

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Seminal Vesicle	Spleen	Testes	Urinary Bladder

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe	Carcinoma	
	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 2, Multifocal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 56	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 89
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 56

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Spleen	Testes		

---

**MISSING**

Urinary Bladder

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 4, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 2, Multifocal
Seminal Vesicle	Hyperplasia	Papillary

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 57	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 89
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 57

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Seminal Vesicle
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Pituitary Gland

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 4, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Diffuse
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Multifocal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 58	<b>TRT#:</b> 2 <b>DOSE:</b> 200MG/KG	<b>SEX:</b> Male <b>DISP:</b> Scheduled Sacrifice	<b>DAY ON TEST:</b> 32 <b>HISTO:</b> 58
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Eye	Kidney	Liver
Lymph Node	Pituitary Gland	Seminal Vesicle	Spleen
Testes	Urinary Bladder		

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 2, Diffuse

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

---

<b>ANIMAL ID:</b> 59	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 58
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 59

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Seminal Vesicle	Spleen
Testes	Urinary Bladder		

---

**MISSING**

Pituitary Gland

---

**OBSERVATIONS**

Liver	Inflammation	Focal, Minimal
	Tension Lipidosis	Mild
Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 2, Multifocal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 60	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 88
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 60

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Liver	Seminal Vesicle
Spleen	Testes	Urinary Bladder	

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**MISSING**

Pituitary Gland	Prostate, Ventral Lobe		
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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 61	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 86
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 61

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Liver	Spleen
Testes	Urinary Bladder		

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**MISSING**

Pituitary Gland

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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 4, Focal
Prostate, Dorsal Lobe	Hyperplasia	Grade 4, Focal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Focal
Seminal Vesicle	Hyperplasia	Papillary

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 62	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 85
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 62

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Seminal Vesicle	Spleen	Testes	

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**MISSING**

Prostate, Lateral Lobe	Urinary Bladder		
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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Multifocal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 63	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 85
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 63

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis	Kidney	Liver	Pituitary Gland
Spleen	Testes	Urinary Bladder	

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**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Diffuse
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Ventral Lobe	Carcinoma	
	Hyperplasia	Grade 3, Focal
Seminal Vesicle	Hyperplasia	Papillary

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20108-02  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Mouse/TRAMP

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Antioxidant model (TRAMP) - NAO (spinach extract)  
**CAS Number:** NAOSPINEXTR

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:20:49  
**First Dose M/F:** NA / NA  
**Lab:** ILS

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<b>ANIMAL ID:</b> 64	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 86
	<b>DOSE:</b> 200MG/KG	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 64

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis	Kidney	Liver	Seminal Vesicle
Spleen	Testes	Urinary Bladder	

---

**MISSING**

Pituitary Gland

---

**OBSERVATIONS**

Prostate, Anterior Lobe	Hyperplasia	Grade 3, Multifocal
Prostate, Dorsal Lobe	Hyperplasia	Grade 3, Diffuse
Prostate, Lateral Lobe	Hyperplasia	Grade 3, Diffuse
Prostate, Ventral Lobe	Hyperplasia	Grade 3, Multifocal

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PRIMARY CAUSE OF DEATH

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