

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Antioxidant model (TRAMP) - NAO (spinach extract)
CAS Number: NAOSPINEXTR

Date Report Requested: 10/23/2014
Time Report Requested: 11:21:53
First Dose M/F: NA / NA
Lab: ILS

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

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**TRAMP Mouse Male
 VEHICLE CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	8	8	5	8	8	8	8	8	8	8	8
	8	6	7	5	7	7	9	7	8	6	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1	0
	1	2	3	4	5	6	7	8	9	0	

*TOTALS

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Focal	1		1		1		1	1			5 1.0

Cardiovascular System

NONE

Endocrine System

Pituitary Gland	+	+	+	+	M	+	+	+	+	+	9
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General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Prostate, Anterior Lobe	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Grade 3, Focal					X						1
Hyperplasia, Grade 3, Multifocal			X					X	X		3
Hyperplasia, Grade 4, Focal	X					X					2
Hyperplasia, Grade 4, Multifocal		X		X			X			X	4
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Grade 3, Diffuse			X								1
Hyperplasia, Grade 3, Focal								X	X		2
Hyperplasia, Grade 4, Multifocal	X				X						2

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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TRAMP Mouse Male VEHICLE CONTROL	DAY ON TEST										*TOTALS
	0 8 8	0 0 8	0 8 6	0 0 5	0 0 8	0 0 8	0 0 8	0 0 8	0 0 7	0 0 9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	
Hyperplasia, Grade 5, Focal		X		X		X	X				4
Hyperplasia, Grade 5, Multifocal									X		1
Prostate, Lateral Lobe	M	+	+	+	+	+	+	+	M	M	7
Hyperplasia, Grade 2, Diffuse		X									1
Hyperplasia, Grade 3, Diffuse								X			1
Hyperplasia, Grade 3, Focal						X					1
Hyperplasia, Grade 3, Multifocal			X	X	X						3
Hyperplasia, Grade 4, Focal							X				1
Prostate, Ventral Lobe	M	M	+	M	M	M	+	+	+	+	5
Hyperplasia, Grade 3, Diffuse							X		X	X	3
Hyperplasia, Grade 3, Focal								X			1
Hyperplasia, Grade 3, Multifocal			X								1
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Grade 2, Multifocal		X									1
Hyperplasia, Grade 3, Focal	X			X							2
Hyperplasia, Grade 3, Multifocal			X		X	X			X		4
Hyperplasia, Papillary		X					X			X	3
Testes	+	+	+	+	+	+	+	+	+	+	10
Atrophy			1								1 1.0
Hematopoietic System											
Spleen	+	+	+	+	+	+	+	+	+	+	10
Integumentary System											

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	8	8	5	8	8	8	8	8	8	8	8
	8	6	7	5	7	7	9	7	8	6	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1	0
	1	2	3	4	5	6	7	8	9	0	

*TOTALS

NONE
Musculoskeletal System
 NONE
Nervous System
 NONE
Respiratory System
 NONE
Special Senses System
 NONE
Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Cortex, Renal Tubule, Regeneration, Focal	1										1 1.0
Medulla, Renal Tubule, Dilatation, Focal							1				1 1.0
Urinary Bladder	+	+	+	+	+	M	+	+	+	+	9

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TRAMP Mouse Male 200MG/KG	DAY ON TEST																																			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	8	8	8	8	8	5	3	8	3	8	8	3	5	3	8	8	3	5	8	5	5	8	8	3	5	8	8	8	8	8	8	8	8	8	
	8	6	9	6	7	7	8	3	8	3	5	8	2	7	2	9	5	3	5	7	8	7	8	9	9	2	8	8	6	6	5	5				
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	
	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6		

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Focal	1	1			1									1	1			1	1												1					
Tension Lipidosis													2																							2
Stomach, Forestomach									+																											
Stomach, Glandular									+																											

Cardiovascular System

NONE

Endocrine System

Pituitary Gland	+	M	+	M	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	M	+	M	+	+	M	+	M	M	M	+	+		
-----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Granulomatous													2																							
Prostate																																				+
Prostate, Anterior Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Grade 3, Diffuse																																				X
Hyperplasia, Grade 3, Focal					X			X								X			X	X			X													
Hyperplasia, Grade 3, Multifocal						X	X		X	X	X	X	X	X						X	X		X	X		X	X	X						X		

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Hyperplasia, Grade 4, Focal	X	X	X	X															X													
Hyperplasia, Grade 4, Multifocal																																
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia, Grade 3, Diffuse				X	X																											
Hyperplasia, Grade 3, Focal																																
Hyperplasia, Grade 3, Multifocal						X	X		X	X		X	X	X					X	X	X		X	X				X	X		X	
Hyperplasia, Grade 4, Focal	X	X																														
Hyperplasia, Grade 4, Multifocal				X																												
Hyperplasia, Grade 5, Focal																																
Prostate, Lateral Lobe	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+
Hyperplasia, Grade 2, Diffuse																																
Hyperplasia, Grade 3, Diffuse				X																												
Hyperplasia, Grade 3, Focal						X				X																						
Hyperplasia, Grade 3, Multifocal	X				X		X		X					X	X	X	X		X	X	X		X		X	X	X	X	X	X	X	X
Hyperplasia, Grade 4, Focal					X																											
Inflammation																																
Prostate, Ventral Lobe	M	+	+	+	M	M	+	+	+	+	+	M	+	+	+	M	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Grade 2, Diffuse																																
Hyperplasia, Grade 2, Multifocal																																
Hyperplasia, Grade 3, Diffuse				X		X																										
Hyperplasia, Grade 3, Focal																																
Hyperplasia, Grade 3, Multifocal																																
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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TRAMP Mouse Male 200MG/KG	DAY ON TEST																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	8	8	8	8	8	5	3	8	3	8	8	3	5	3	8	8	3	5	8	5	5	8	8	3	5	8	8	8
	8	6	9	6	7	8	8	3	8	3	5	8	2	7	2	9	5	3	7	8	7	8	9	9	2	8	8	6	5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6
	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
Hyperplasia, Grade 2, Focal		X	X				X												X										
Hyperplasia, Papillary	X				X										X						X						X		X
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Germinal Epith, Syncytial Alteration							1																						
Seminif Tub, Atrophy													2				1												
Hematopoietic System																													
Lymph Node																	+										+		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation											3																		
Thymus							+																						
Integumentary System																													
Mammary Gland											+																		
Musculoskeletal System																													
NONE																													
Nervous System																													
NONE																													
Respiratory System																													
NONE																													
Special Senses System																													

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8	8	8	8	8	8	5	3	8	3	8	8	3	5	3	8	8	3	5	8	5	5	8	8	8	3	5	8	8	8
	8	6	9	6	7	7	8	3	8	3	5	8	2	7	2	9	5	3	7	8	7	8	7	9	9	2	8	8	6	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	
3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	
Eye																														
Urinary System																														
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cortex, Renal Tubule, Regeneration, Focal															1															
Medulla, Renal Tubule, Dilatation										1																				
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+

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TRAMP Mouse Male
200MG/KG

DAY ON TEST	0	
	0	
	8	
	6	
ANIMAL ID	0	
	0	
	0	
	6	
	4	*TOTALS

Alimentary System

Liver	+	32	
Inflammation, Focal		8	1.0
Tension Lipidosis		2	2.0
Stomach, Forestomach		1	
Stomach, Glandular		1	

Cardiovascular System

NONE

Endocrine System

Pituitary Gland	M	21	
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General Body System

NONE

Genital System

Epididymis	+	32	
Inflammation, Granulomatous		1	2.0
Prostate		1	
Prostate, Anterior Lobe	+	32	
Hyperplasia, Grade 3, Diffuse		1	
Hyperplasia, Grade 3, Focal		6	
Hyperplasia, Grade 3, Multifocal	X	17	

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	ANIMAL ID		*TOTALS
	0		
	0		
	8		
	6		
	0		
	0		
	0		
	6		
	4		
Hyperplasia, Grade 4, Focal			7
Hyperplasia, Grade 4, Multifocal			1
Prostate, Dorsal Lobe	+	31	
Hyperplasia, Grade 3, Diffuse	X		4
Hyperplasia, Grade 3, Focal			3
Hyperplasia, Grade 3, Multifocal			16
Hyperplasia, Grade 4, Focal			5
Hyperplasia, Grade 4, Multifocal			2
Hyperplasia, Grade 5, Focal			1
Prostate, Lateral Lobe	+	30	
Hyperplasia, Grade 2, Diffuse			1
Hyperplasia, Grade 3, Diffuse	X		3
Hyperplasia, Grade 3, Focal			5
Hyperplasia, Grade 3, Multifocal			20
Hyperplasia, Grade 4, Focal			1
Inflammation			2 2.0
Prostate, Ventral Lobe	+	24	
Hyperplasia, Grade 2, Diffuse			3
Hyperplasia, Grade 2, Multifocal			5
Hyperplasia, Grade 3, Diffuse			2
Hyperplasia, Grade 3, Focal			5
Hyperplasia, Grade 3, Multifocal	X		9
Seminal Vesicle	+	32	

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1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20108-02

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Mouse/TRAMP

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Antioxidant model (TRAMP) - NAO (spinach extract)

CAS Number: NAOSPINEXTR

Date Report Requested: 10/23/2014

Time Report Requested: 11:21:54

First Dose M/F: NA / NA

Lab: ILS

**TRAMP Mouse Male
200MG/KG**

DAY ON TEST	0
	0
	8
	6
ANIMAL ID	0
	0
	0
	6
	4
	*TOTALS

Hyperplasia, Grade 2, Focal		4	
Hyperplasia, Papillary		6	
Testes	+	32	
Germinal Epith, Syncytial Alteration		1	1.0
Seminif Tub, Atrophy		2	1.5

Hematopoietic System

Lymph Node		2	
Spleen	+	32	
Hematopoietic Cell Proliferation		1	3.0
Thymus		1	

Integumentary System

Mammary Gland		1	
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Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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TRAMP Mouse Male
200MG/KG

DAY ON TEST	ANIMAL ID	
0	0	
0	0	
8	0	
6	6	
	4	*TOTALS

Eye		3	
Urinary System			
Kidney	+	32	
Cortex, Renal Tubule, Regeneration, Focal		1	1.0
Medulla, Renal Tubule, Dilatation		1	1.0
Urinary Bladder	+	30	

END OF MALE DATA

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