

**Experiment Number:** 56111-02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

**Test Compound:** trans-Cinnamaldehyde

**CAS Number:** 14371-10-9

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 09:28:17

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

**Lab:** BAT

<b>C Number:</b>	C56111B
<b>Lock Date:</b>	01/02/1996
<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>	Both
<b>PWG Approval Date</b>	NONE

**Experiment Number:** 56111-02

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Mouse/B6C3F1

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

**Lab:** BAT

**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF TRANS-CINNAMALDEHYDE**

**FEMALE MOUSE**

**Organ**

Nose: Olfactory Epi

Stomach, Forestomach

Stomach, Forestomach: Epithelium

**Morphology**

Degeneration

Hyperkeratosis

Hyperplasia

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 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 3 WEEKS**

DOSE	MALE				
	UNTREATDCONTROL	1.25	2.5	5.0	10.0
<b>Adrenal Cortex</b>					
<b>Accessory Adrenal Cortical Nodule</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/20 (0%)	0/1 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/19.00	0/0.00	1/10.00	0/5.01	0/1.03
POLY-3 PERCENT (g)	0%	0%	10%	0%	0%
TERMINAL (d)	0/19 (0%)	0/0 (0%)	1/10 (10%)	0/5 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	92(T)	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.318	(e)	P=0.369	(e)	(e)
POLY 1.5	P=0.339	(e)	P=0.369	(e)	(e)
POLY 6	P=0.317	(e)	P=0.369	(e)	(e)
COCH-ARM / FISHERS	P=0.663N	(e)	P=0.333	(e)	(e)
MAX-ISO-POLY-3	P=0.547	(e)	P=0.107	(e)	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Test Compound: trans-Cinnamaldehyde  
 CAS Number: 14371-10-9

Date Report Requested: 10/20/2014  
 Time Report Requested: 09:28:17  
 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 3 WEEKS**

DOSE	MALE				
	UNTREATDCONTROL	1.25	2.5	5.0	10.0
<b>Heart</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL(a)	1/20 (5%)	0/1 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/19.00	0/0.00	0/10.00	0/5.01	0/1.03
POLY-3 PERCENT (g)	5.3%	0%	0%	0%	0%
TERMINAL (d)	1/19 (5%)	0/0 (0%)	0/10 (0%)	0/5 (0%)	0/1 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.334N	P=0.987N	P=0.628N	P=0.723N	P=0.791N
POLY 1.5	P=0.331N	P=0.987N	P=0.628N	P=0.720N	P=0.785N
POLY 6	P=0.335N	P=0.987N	P=0.628N	P=0.723N	P=0.791N
COCH-ARM / FISHERS	P=0.398N	P=0.952N	P=0.667N	P=0.667N	P=0.667N
MAX-ISO-POLY-3	P=0.574N	P=0.500N	P=0.261N	P=0.375N	P=0.474N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Test Compound: trans-Cinnamaldehyde  
 CAS Number: 14371-10-9

Date Report Requested: 10/20/2014  
 Time Report Requested: 09:28:17  
 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 3 WEEKS**

DOSE	MALE				
	UNTREATDCONTROL	1.25	2.5	5.0	10.0
<b>Kidney</b>					
<b>Vacuolization Cytoplasmic</b>					
<b>LESION RATES</b>					
OVERALL(a)	2/20 (10%)	0/1 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/19.00	0/0.00	0/10.00	0/5.01	0/1.03
POLY-3 PERCENT (g)	10.5%	0%	0%	0%	0%
TERMINAL (d)	2/19 (11%)	0/0 (0%)	0/10 (0%)	0/5 (0%)	0/1 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.169N	P=0.948N	P=0.386N	P=0.549N	P=0.699N
POLY 1.5	P=0.170N	P=0.948N	P=0.386N	P=0.542N	P=0.684N
POLY 6	P=0.169N	P=0.948N	P=0.386N	P=0.549N	P=0.700N
COCH-ARM / FISHERS	P=0.196N	P=0.905N	P=0.437N	P=0.437N	P=0.437N
MAX-ISO-POLY-3	P=0.295N	P=0.500N	P=0.177N	P=0.321N	P=0.462N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Test Compound: trans-Cinnamaldehyde  
 CAS Number: 14371-10-9

Date Report Requested: 10/20/2014  
 Time Report Requested: 09:28:17  
 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 3 WEEKS**

DOSE	MALE				
	UNTREATDCONTROL	1.25	2.5	5.0	10.0
Liver					
Degeneration					
<b>LESION RATES</b>					
OVERALL(a)	1/20 (5%)	0/1 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/19.00	0/0.00	0/10.00	0/5.01	0/1.03
POLY-3 PERCENT (g)	5.3%	0%	0%	0%	0%
TERMINAL (d)	1/19 (5%)	0/0 (0%)	0/10 (0%)	0/5 (0%)	0/1 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.334N	P=0.987N	P=0.628N	P=0.723N	P=0.791N
POLY 1.5	P=0.331N	P=0.987N	P=0.628N	P=0.720N	P=0.785N
POLY 6	P=0.335N	P=0.987N	P=0.628N	P=0.723N	P=0.791N
COCH-ARM / FISHERS	P=0.398N	P=0.952N	P=0.667N	P=0.667N	P=0.667N
MAX-ISO-POLY-3	P=0.574N	P=0.500N	P=0.261N	P=0.375N	P=0.474N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
**Test Compound:** trans-Cinnamaldehyde  
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**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 09:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 3 WEEKS**

DOSE	MALE				
	UNTREATDCONTROL	1.25	2.5	5.0	10.0
<b>Liver</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
<b>OVERALL(a)</b>	2/20 (10%)	0/1 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
<b>POLY-3 RATE (b)</b>	2/19.00	0/0.00	1/10.00	0/5.01	0/1.03
<b>POLY-3 PERCENT (g)</b>	10.5%	0%	10%	0%	0%
<b>TERMINAL (d)</b>	2/19 (11%)	0/0 (0%)	1/10 (10%)	0/5 (0%)	0/1 (0%)
<b>FIRST INCIDENCE</b>	92(T)	---	92(T)	---	---
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	P=0.408N	P=0.948N	P=0.720N	P=0.549N	P=0.699N
<b>POLY 1.5</b>	P=0.390N	P=0.948N	P=0.720N	P=0.542N	P=0.684N
<b>POLY 6</b>	P=0.409N	P=0.948N	P=0.720N	P=0.549N	P=0.700N
<b>COCH-ARM / FISHERS</b>	P=0.195N	P=0.905N	P=0.719	P=0.437N	P=0.437N
<b>MAX-ISO-POLY-3</b>	P=0.682N	P=0.500N	P=0.485N	P=0.321N	P=0.462N
<b>HISTCONT SAME RTE</b>					
<b>HISTCONT ALL RTES</b>					
<b>CURR VS HC SAME RTE</b>					
<b>CURR VS HC ALL RTES</b>					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

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 CAS Number: 14371-10-9

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 Time Report Requested: 09:28:17  
 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 3 WEEKS**

DOSE	MALE				
	UNTREATDCONTROL	1.25	2.5	5.0	10.0
<b>Liver</b>					
<b>Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	2/20 (10%)	0/1 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/19.00	0/0.00	0/10.00	0/5.01	0/1.03
POLY-3 PERCENT (g)	10.5%	0%	0%	0%	0%
TERMINAL (d)	2/19 (11%)	0/0 (0%)	0/10 (0%)	0/5 (0%)	0/1 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.169N	P=0.948N	P=0.386N	P=0.549N	P=0.699N
POLY 1.5	P=0.170N	P=0.948N	P=0.386N	P=0.542N	P=0.684N
POLY 6	P=0.169N	P=0.948N	P=0.386N	P=0.549N	P=0.700N
COCH-ARM / FISHERS	P=0.196N	P=0.905N	P=0.437N	P=0.437N	P=0.437N
MAX-ISO-POLY-3	P=0.295N	P=0.500N	P=0.177N	P=0.321N	P=0.462N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					



Experiment Number: 56111-02  
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 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 3 WEEKS**

DOSE	MALE				
	UNTREATDCONTROL	1.25	2.5	5.0	10.0
<b>Nose: Olfactory Epi Degeneration</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/20 (0%)	0/1 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/19.00	0/0.00	0/10.00	0/5.01	0/1.03
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/19 (0%)	0/0 (0%)	0/10 (0%)	0/5 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
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 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 3 WEEKS**

DOSE	MALE				
	UNTREATDCONTROL	1.25	2.5	5.0	10.0
<b>Stomach, Forestomach</b>					
<b>Hyperkeratosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/20 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/19.00	0/9.00	0/10.00	1/6.01	0/1.03
POLY-3 PERCENT (g)	0%	0%	0%	16.6%	0%
TERMINAL (d)	0/19 (0%)	0/9 (0%)	0/10 (0%)	0/5 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	9	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.111	(e)	(e)	P=0.288	(e)
POLY 1.5	P=0.117	(e)	(e)	P=0.291	(e)
POLY 6	P=0.110	(e)	(e)	P=0.288	(e)
COCH-ARM / FISHERS	P=0.571	(e)	(e)	P=0.333	(e)
MAX-ISO-POLY-3	P=0.192	(e)	(e)	P=0.103	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

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 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 3 WEEKS**

DOSE	MALE				
	UNTREATDCONTROL	1.25	2.5	5.0	10.0
<b>Stomach, Forestomach: Epithelium</b>					
<b>Hyperplasia</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/20 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/19.00	0/9.00	0/10.00	1/6.01	0/1.03
POLY-3 PERCENT (g)	0%	0%	0%	16.6%	0%
TERMINAL (d)	0/19 (0%)	0/9 (0%)	0/10 (0%)	0/5 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	9	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.111	(e)	(e)	P=0.288	(e)
POLY 1.5	P=0.117	(e)	(e)	P=0.291	(e)
POLY 6	P=0.110	(e)	(e)	P=0.288	(e)
COCH-ARM / FISHERS	P=0.571	(e)	(e)	P=0.333	(e)
MAX-ISO-POLY-3	P=0.192	(e)	(e)	P=0.103	(e)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
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 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	1.25	2.5	5.0	10.0
<b>Adrenal Cortex</b>					
<b>Accessory Adrenal Cortical Nodule</b>					
<b>LESION RATES</b>					
OVERALL(a)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/20.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	5%	0%	0%	0%	0%
TERMINAL (d)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	P=0.637N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.637N
POLY 6	(e)	(e)	(e)	(e)	P=0.637N
COCH-ARM / FISHERS	P=0.429N	(e)	(e)	(e)	P=0.667N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.272N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
**Test Compound:** trans-Cinnamaldehyde  
**CAS Number:** 14371-10-9

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 09:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)**  
**LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	1.25	2.5	5.0	10.0
<b>Heart</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL(a)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/20.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	5%	0%	0%	0%	0%
TERMINAL (d)	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	P=0.637N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.637N
POLY 6	(e)	(e)	(e)	(e)	P=0.637N
COCH-ARM / FISHERS	P=0.429N	(e)	(e)	(e)	P=0.667N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.272N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
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**First Dose M/F:** NA / NA  
**Lab:** BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)**  
**LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	1.25	2.5	5.0	10.0
<b>Kidney</b>					
<b>Vacuolization Cytoplasmic</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Test Compound: trans-Cinnamaldehyde  
 CAS Number: 14371-10-9

Date Report Requested: 10/20/2014  
 Time Report Requested: 09:28:17  
 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	1.25	2.5	5.0	10.0
Liver					
Degeneration					
<b>LESION RATES</b>					
OVERALL(a)	0/20 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/20.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
**Test Compound:** trans-Cinnamaldehyde  
**CAS Number:** 14371-10-9

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 09:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)**  
**LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	1.25	2.5	5.0	10.0
<b>Liver</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
<b>OVERALL(a)</b>	16/20 (80%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	5/10 (50%)
<b>POLY-3 RATE (b)</b>	16/20.00	0/1.00	0/0.00	0/0.00	5/10.00
<b>POLY-3 PERCENT (g)</b>	80%	0%	0%	0%	50%
<b>TERMINAL (d)</b>	16/20 (80%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	5/10 (50%)
<b>FIRST INCIDENCE</b>	92(T)	---	---	---	92(T)
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	(e)	P=0.257N	(e)	(e)	P=0.099N
<b>POLY 1.5</b>	(e)	P=0.257N	(e)	(e)	P=0.099N
<b>POLY 6</b>	(e)	P=0.257N	(e)	(e)	P=0.099N
<b>COCH-ARM / FISHERS</b>	P=0.092N	P=0.238N	(e)	(e)	P=0.104N
<b>MAX-ISO-POLY-3</b>	(e)	P=0.084N	(e)	(e)	P=0.069N
<b>HISTCONT SAME RTE</b>					
<b>HISTCONT ALL RTES</b>					
<b>CURR VS HC SAME RTE</b>					
<b>CURR VS HC ALL RTES</b>					



Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
**Test Compound:** trans-Cinnamaldehyde  
**CAS Number:** 14371-10-9

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 09:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)**  
**LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	1.25	2.5	5.0	10.0
<b>Liver</b>					
<b>Necrosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	2/20 (10%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/20.00	0/1.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	2/20 (10%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	P=0.911N	(e)	(e)	P=0.400N
POLY 1.5	(e)	P=0.911N	(e)	(e)	P=0.400N
POLY 6	(e)	P=0.911N	(e)	(e)	P=0.400N
COCH-ARM / FISHERS	P=0.263N	P=0.905N	(e)	(e)	P=0.437N
MAX-ISO-POLY-3	(e)	P=0.409N	(e)	(e)	P=0.189N
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
**Test Compound:** trans-Cinnamaldehyde  
**CAS Number:** 14371-10-9

Date Report Requested: 10/20/2014  
 Time Report Requested: 09:28:17  
 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)  
 LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	1.25	2.5	5.0	10.0
<b>Nose: Olfactory Epi Degeneration</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/20 (0%)	0/0 (0%)	2/2 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/20.00	0/0.00	2/2.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	100%	100%	100%
TERMINAL (d)	0/20 (0%)	0/0 (0%)	2/2 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	92(T)	92(T)	92(T)
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	P=NA	P=NA	P=NA
POLY 1.5	(e)	(e)	P=NA	P=NA	P=NA
POLY 6	(e)	(e)	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	P=0.004**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	P=0.000**	P=0.000**	P=0.000**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
**Test Compound:** trans-Cinnamaldehyde  
**CAS Number:** 14371-10-9

Date Report Requested: 10/20/2014  
 Time Report Requested: 09:28:17  
 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)**  
**LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	1.25	2.5	5.0	10.0
<b>Stomach, Forestomach</b>					
<b>Hyperkeratosis</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/20 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/20.00	0/10.00	1/10.00	0/10.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	40%
TERMINAL (d)	0/20 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	4/10 (40%)
FIRST INCIDENCE	---	---	92(T)	---	92(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	P=0.359	(e)	P=0.002**
POLY 1.5	P=0.000**	(e)	P=0.359	(e)	P=0.002**
POLY 6	P=0.000**	(e)	P=0.359	(e)	P=0.002**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.333	(e)	P=0.008**
MAX-ISO-POLY-3	P=0.000**	(e)	P=0.107	(e)	P<0.001**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
**Test Compound:** trans-Cinnamaldehyde  
**CAS Number:** 14371-10-9

Date Report Requested: 10/20/2014  
 Time Report Requested: 09:28:17  
 First Dose M/F: NA / NA  
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)**  
**LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	1.25	2.5	5.0	10.0
<b>Stomach, Forestomach: Epithelium</b>					
<b>Hyperplasia</b>					
<b>LESION RATES</b>					
OVERALL(a)	0/20 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	4/10 (40%)
POLY-3 RATE (b)	0/20.00	0/10.00	1/10.00	0/10.00	4/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%	40%
TERMINAL (d)	0/20 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	4/10 (40%)
FIRST INCIDENCE	---	---	92(T)	---	92(T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.000**	(e)	P=0.359	(e)	P=0.002**
POLY 1.5	P=0.000**	(e)	P=0.359	(e)	P=0.002**
POLY 6	P=0.000**	(e)	P=0.359	(e)	P=0.002**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.333	(e)	P=0.008**
MAX-ISO-POLY-3	P=0.000**	(e)	P=0.107	(e)	P<0.001**
HISTCONT SAME RTE					
HISTCONT ALL RTES					
CURR VS HC SAME RTE					
CURR VS HC ALL RTES					

Experiment Number: 56111-02  
 Test Type: 90-DAY  
 Route: DOSED FEED  
 Species/Strain: Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
**Test Compound:** trans-Cinnamaldehyde  
**CAS Number:** 14371-10-9

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 09:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)**  
**LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE				
	VEHICLE CONTROL	1.25	2.5	5.0	10.0
<b>Uterus</b>					
<b>Hydrometra</b>					
<b>LESION RATES</b>					
<b>OVERALL(a)</b>	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
<b>POLY-3 RATE (b)</b>	1/20.00	0/0.00	0/0.00	0/0.00	0/10.00
<b>POLY-3 PERCENT (g)</b>	5%	0%	0%	0%	0%
<b>TERMINAL (d)</b>	1/20 (5%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
<b>FIRST INCIDENCE</b>	92(T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	(e)	(e)	(e)	(e)	P=0.637N
<b>POLY 1.5</b>	(e)	(e)	(e)	(e)	P=0.637N
<b>POLY 6</b>	(e)	(e)	(e)	(e)	P=0.637N
<b>COCH-ARM / FISHERS</b>	P=0.429N	(e)	(e)	(e)	P=0.667N
<b>MAX-ISO-POLY-3</b>	(e)	(e)	(e)	(e)	P=0.272N
<b>HISTCONT SAME RTE</b>					
<b>HISTCONT ALL RTES</b>					
<b>CURR VS HC SAME RTE</b>					
<b>CURR VS HC ALL RTES</b>					

**Experiment Number:** 561111-02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

**Test Compound:** trans-Cinnamaldehyde  
**CAS Number:** 14371-10-9

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 09:28:17  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**LEGEND**

- (a) Number of tumor-bearing animals/number of animals examined at site.
  - (b) Number of tumor-bearing animals/Poly-3 number
  - (d) Observed incidence at terminal kill.
  - (e) Value of statistic cannot be computed.
  - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
  - (g) Poly-3 adjusted lifetime tumor incidence.
  - (n) No statistics are calculated if all dose groups have fewer than two tumors.
  - (I) Interim sacrifice
  - (T) Terminal sacrifice
  - # Tumor rates based on numbers of animals necropsied.
  - \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
  - \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
  - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

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