

Experiment Number: 87003-04
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: DL-Camphor
CAS Number: 76-22-2

Date Report Requested: 10/18/2014
Time Report Requested: 14:13:02
First Dose M/F: NA / NA
Lab: BAT

C Number:	C87003
Lock Date:	08/18/1998
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF DL-CAMPHOR

MALE MOUSE

Organ

Kidney

Skin: Epidermis, SOA

FEMALE MOUSE

Organ

Skin: Epidermis, SOA

Morphology

Nephropathy

Hyperplasia

Morphology

Hyperplasia

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

DOSE	MALE					
	0 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG	800 MG/KG	1000 MG/KG
Kidney						
Nephropathy						
LESION RATES						
OVERALL(a)	2/10 (20%)	0/10 (0%)	1/9 (11%)	0/9 (0%)	4/10 (40%)	4/10 (40%)
POLY-3 RATE (b)	2/10.00	0/10.00	1/9.00	0/9.00	4/10.00	4/10.00
POLY-3 PERCENT (g)	20%	0%	11.1%	0%	40%	40%
TERMINAL (d)	2/10 (20%)	0/10 (0%)	1/9 (11%)	0/9 (0%)	4/10 (40%)	4/10 (40%)
FIRST INCIDENCE	93(T)	---	93(T)	---	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	P=0.022*	P=0.227N	P=0.538N	P=0.251N	P=0.318	P=0.318
POLY 1.5	P=0.022*	P=0.227N	P=0.538N	P=0.251N	P=0.318	P=0.318
POLY 6	P=0.022*	P=0.227N	P=0.538N	P=0.251N	P=0.318	P=0.318
COCH-ARM / FISHERS	P=0.027*	P=0.237N	P=0.542N	P=0.263N	P=0.314	P=0.314
MAX-ISO-POLY-3	P=0.039*	P=0.067N	P=0.311N	P=0.084N	P=0.172	P=0.172
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 87003-04
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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	MALE					
	0 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG	800 MG/KG	1000 MG/KG
Liver						
Basophilic Focus						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

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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	MALE					
	0 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG	800 MG/KG	1000 MG/KG
Liver						
Inflammation						
LESION RATES						
OVERALL(a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	10%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	93(T)	---	---	---	---	93(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.308N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.274N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 87003-04
 Test Type: 90-DAY
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 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	MALE					
	0 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG	800 MG/KG	1000 MG/KG
Pancreas						
Inflammation						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.206N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.159N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 87003-04
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 Route: SKIN APPLICATION
 Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Date Report Requested: 10/18/2014
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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	MALE					
	0 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG	800 MG/KG	1000 MG/KG
Skin: Epidermis, SOA						
Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	1/10 (10%)	1/10 (10%)	2/10 (20%)	5/10 (50%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	1/10.00	1/10.00	2/10.00	5/10.00	7/10.00
POLY-3 PERCENT (g)	0%	10%	10%	20%	50%	70%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	1/10 (10%)	2/10 (20%)	5/10 (50%)	7/10 (70%)
FIRST INCIDENCE	---	93(T)	93(T)	93(T)	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	P=0.000**	P=0.500	P=0.500	P=0.227	P=0.008**	P=0.000**
POLY 1.5	P=0.000**	P=0.500	P=0.500	P=0.227	P=0.008**	P=0.000**
POLY 6	P=0.000**	P=0.500	P=0.500	P=0.227	P=0.008**	P=0.000**
COCH-ARM / FISHERS	P=0.000**	P=0.500	P=0.500	P=0.237	P=0.016*	P=0.002**
MAX-ISO-POLY-3	P=0.000**	P=0.159	P=0.159	P=0.067	P<0.001**	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

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P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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Date Report Requested: 10/18/2014
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 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 5 WEEKS**

DOSE	FEMALE					
	0 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG	800 MG/KG	1000 MG/KG
Kidney						
Nephropathy						
LESION RATES						
OVERALL(a)	1/10 (10%)	3/10 (30%)	3/10 (30%)	1/9 (11%)	2/10 (20%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	3/10.00	3/9.03	1/9.00	2/10.00	1/10.00
POLY-3 PERCENT (g)	10%	30%	33.2%	11.1%	20%	10%
TERMINAL (d)	1/10 (10%)	3/10 (30%)	3/9 (33%)	1/9 (11%)	2/10 (20%)	1/10 (10%)
FIRST INCIDENCE	93(T)	93(T)	93(T)	93(T)	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	P=0.358N	P=0.292	P=0.252	P=0.737	P=0.500	P=0.760
POLY 1.5	P=0.358N	P=0.292	P=0.258	P=0.737	P=0.500	P=0.760
POLY 6	P=0.358N	P=0.292	P=0.251	P=0.737	P=0.500	P=0.760
COCH-ARM / FISHERS	P=0.356N	P=0.291	P=0.291	P=0.737	P=0.500	P=0.763N
MAX-ISO-POLY-3	P=0.393N	P=0.138	P=0.123	P=0.471	P=0.274	P=1.000
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

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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 5 WEEKS**

DOSE	FEMALE					
	0 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG	800 MG/KG	1000 MG/KG
Liver						
Basophilic Focus						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	93(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.206	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 87003-04
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 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 5 WEEKS**

DOSE	FEMALE					
	0 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG	800 MG/KG	1000 MG/KG
Liver						
Inflammation						
LESION RATES						
OVERALL(a)	5/10 (50%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	5/10.00	0/0.00	0/0.00	0/0.00	0/0.00	4/10.00
POLY-3 PERCENT (g)	50%	0%	0%	0%	0%	40%
TERMINAL (d)	5/10 (50%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
FIRST INCIDENCE	93(T)	---	---	---	---	93(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.360N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.334N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

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 Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 CAS Number: 76-22-2

Date Report Requested: 10/18/2014
 Time Report Requested: 14:13:02
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 5 WEEKS**

DOSE	FEMALE					
	0 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG	800 MG/KG	1000 MG/KG
Pancreas						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 87003-04
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 Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Test Compound: DL-Camphor
 CAS Number: 76-22-2

Date Report Requested: 10/18/2014
 Time Report Requested: 14:13:03
 First Dose M/F: NA / NA
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
 LAST REMOVAL AT 5 WEEKS**

DOSE	FEMALE					
	0 MG/KG	200 MG/KG	400 MG/KG	600 MG/KG	800 MG/KG	1000 MG/KG
Skin: Epidermis, SOA						
Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	1/10 (10%)	2/10 (20%)	2/10 (20%)	4/10 (40%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	1/10.00	2/9.03	2/10.00	4/10.00	9/10.00
POLY-3 PERCENT (g)	0%	10%	22.1%	20%	40%	90%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	2/9 (22%)	2/10 (20%)	4/10 (40%)	9/10 (90%)
FIRST INCIDENCE	---	93(T)	93(T)	93(T)	93(T)	93(T)
STATISTICAL TESTS						
POLY 3	P=0.000**	P=0.500	P=0.202	P=0.227	P=0.033*	P=0.000**
POLY 1.5	P=0.000**	P=0.500	P=0.206	P=0.227	P=0.033*	P=0.000**
POLY 6	P=0.000**	P=0.500	P=0.202	P=0.227	P=0.033*	P=0.000**
COCH-ARM / FISHERS	P=0.000**	P=0.500	P=0.237	P=0.237	P=0.043*	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P=0.159	P=0.065	P=0.067	P=0.007**	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

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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 ****