

Experiment Number: 356843

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Asphalt fume extracts, fraction E**

CAS Number: **EMTDP-84**

Date Report Requested: **09/13/2018**

Time Report Requested: **19:55:53**

NTP Study Number:

356843

Study Result:

Negative

Experiment Number: 356843

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Asphalt fume extracts, fraction E

CAS Number: EMTDP-84

Date Report Requested: 09/13/2018

Time Report Requested: 19:55:53

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	115 ± 12.5	140 ± 8.0	137 ± 5.4	159 ± 10.5	138 ± 8.0
10.0		130 ± 17.1	126 ± 15.5		
33.0	127 ± 5.6	139 ± 4.9	131 ± 11.6		
100.0	119 ± 8.1	140 ± 6.8	131 ± 9.3	169 ± 14.7	122 ± 2.7
333.0	93 ± 5.4	109 ± 9.3	132 ± 2.5	177 ± 6.5	134 ± 11.0
666.0		50 ± 10.1 ^s			
1000.0	60 ± 9.2		74 ± 6.1 ^s	158 ± 5.8	133 ± 3.2
1666.0	22 ± 3.7 ^s				
3333.0				140 ± 9.1	122 ± 9.1
10000.0				44 ± 4.6 ^s	52 ± 9.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					506 ± 34.5
Positive Control ³				365 ± 34.2	
Positive Control ⁴	312 ± 9.2	797 ± 49.0	748 ± 45.7		

Experiment Number: 356843

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Asphalt fume extracts, fraction E
CAS Number: EMTDP-84

Date Report Requested: 09/13/2018

Time Report Requested: 19:55:53

Strain: TA1538

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	31 ± 1.9	51 ± 4.7	12 ± 1.5	13 ± 0.7	15 ± 1.8
33.0			11 ± 1.0	14 ± 2.5	
100.0	25 ± 2.3	46 ± 3.6	12 ± 2.0	10 ± 2.0	
166.0			16 ± 1.8	13 ± 3.3	17 ± 2.5
333.0	25 ± 0.7	44 ± 4.9	19 ± 2.0	13 ± 1.5	16 ± 2.0
666.0	25 ± 0.9	36 ± 4.7			22 ± 1.2
1000.0	27 ± 4.9	25 ± 4.6	12 ± 3.1	24 ± 2.3	18 ± 2.0
1666.0	34 ± 2.7	39 ± 5.6			22 ± 3.2
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁵			421 ± 22.2		
Positive Control ²				251 ± 16.3	562 ± 15.0
Positive Control ³	375 ± 11.0	159 ± 15.8			

Experiment Number: 356843

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Asphalt fume extracts, fraction E

CAS Number: EMTDP-84

Date Report Requested: 09/13/2018

Time Report Requested: 19:55:53

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	198 ± 12.7	160 ± 8.5	152 ± 5.5	225 ± 1.3	157 ± 2.8
10.0	186 ± 8.4	162 ± 8.5			
33.0	201 ± 7.5	165 ± 5.2	177 ± 8.2	222 ± 7.8	152 ± 1.5
100.0	216 ± 9.4	174 ± 12.4	195 ± 4.0	216 ± 16.4	149 ± 10.5
333.0	212 ± 7.2	171 ± 11.1	187 ± 5.8	210 ± 13.5	170 ± 8.0
1000.0	195 ± 4.1	174 ± 11.8	194 ± 4.8	147 ± 24.2	170 ± 11.1
3333.0			128 ± 14.8 ^s	172 ± 4.1	139 ± 12.4 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ⁵					427 ± 27.1
Positive Control ²			328 ± 3.0		
Positive Control ³				330 ± 10.4	
Positive Control ⁶	450 ± 27.0	500 ± 14.7			

Experiment Number: 356843

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

G06: Ames Summary Data

Test Compound: **Asphalt fume extracts, fraction E**

CAS Number: **EMTDP-84**

Date Report Requested: **09/13/2018**

Time Report Requested: **19:55:53**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	189 ± 11.0
10.0	
33.0	186 ± 10.5
100.0	216 ± 11.7
333.0	213 ± 5.8
1000.0	216 ± 6.3
3333.0	207 ± 13.4
Trial Summary	Negative
Positive Control ⁵	
Positive Control ²	442 ± 24.0
Positive Control ³	
Positive Control ⁶	

Experiment Number: 356843

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Asphalt fume extracts, fraction E

CAS Number: EMTDP-84

Date Report Requested: 09/13/2018

Time Report Requested: 19:55:53

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	23 ± 4.9	20 ± 2.4	21 ± 0.3	27 ± 2.7	26 ± 3.2
10.0		24 ± 5.4			
33.0	25 ± 2.7	16 ± 4.0			
100.0	14 ± 4.7	14 ± 4.3	19 ± 2.6	23 ± 2.4	17 ± 1.2
166.0					
333.0	16 ± 1.3	21 ± 0.9	22 ± 2.6	26 ± 3.5	18 ± 2.5
666.0			23 ± 2.0		21 ± 2.3
1000.0	15 ± 1.7	0 ± 0.0 ^s	24 ± 2.7	45 ± 2.9	19 ± 3.0
1666.0	8 ± 1.9		24 ± 2.2		26 ± 1.2
3333.0				24 ± 3.4	
10000.0				2 ± 0.9 ^s	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁵					
Positive Control ²			151 ± 10.8	81 ± 3.2	
Positive Control ⁷	365 ± 15.7	512 ± 5.6			
Positive Control ³					91 ± 5.4

Experiment Number: 356843

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Asphalt fume extracts, fraction E

CAS Number: EMTDP-84

Date Report Requested: 09/13/2018

Time Report Requested: 19:55:53

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	21 ± 0.7	13 ± 2.7	19 ± 1.7	23 ± 1.5
10.0				
33.0	18 ± 1.7		18 ± 1.3	
100.0	25 ± 3.2	16 ± 0.7	16 ± 2.1	
166.0	22 ± 1.8		18 ± 1.9	20 ± 1.5
333.0	17 ± 1.8	24 ± 4.6	17 ± 1.2	18 ± 4.0
666.0				24 ± 5.0
1000.0	17 ± 3.3	24 ± 2.0	32 ± 3.7	24 ± 3.1
1666.0				29 ± 4.0
3333.0		14 ± 3.8		
10000.0		1 ± 0.7 ^s		
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ⁵	482 ± 10.9			
Positive Control ²		256 ± 24.1	284 ± 5.5	437 ± 35.9
Positive Control ⁷				
Positive Control ³				

Experiment Number: 356843

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Asphalt fume extracts, fraction E**

CAS Number: **EMTDP-84**

Date Report Requested: **09/13/2018**

Time Report Requested: **19:55:53**

LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 0.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****