

Experiment Number: 984892

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Asphalt fume extracts, fraction C

CAS Number: EMTDP-82

Date Report Requested: 09/18/2018

Time Report Requested: 07:18:50

**NTP Study Number:**

984892

**Study Result:**

Positive

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Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**Test Compound: **Asphalt fume extracts, fraction C**

Time Report Requested: 07:18:50

CAS Number: **EMTDP-82****Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Rat S9</b>
Vehicle Control <sup>1</sup>	117 ± 6.6	145 ± 15.7	167 ± 8.2	168 ± 4.2	125 ± 12.1
10.0					
33.0	95 ± 5.2		171 ± 2.6	146 ± 10.1	160 ± 1.7
100.0	99 ± 8.5	162 ± 10.4	169 ± 8.2	144 ± 8.1	157 ± 10.7
333.0	103 ± 7.2	189 ± 3.0	230 ± 15.3	147 ± 6.1	184 ± 3.0
1000.0	86 ± 3.8	202 ± 6.2	245 ± 13.9	179 ± 13.6	210 ± 10.6
1666.0	74 ± 16.9		265 ± 21.8	160 ± 5.1	202 ± 4.2
3333.0		162 ± 18.0			
6666.0		124 ± 4.4			
Trial Summary	Negative	Equivocal	Weakly Positive	Negative	Weakly Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>		336 ± 14.1	292 ± 18.2	304 ± 29.6	338 ± 15.1
Positive Control <sup>4</sup>	378 ± 16.3				

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**Strain: TA100**

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Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	134 ± 21.2	122 ± 12.7	150 ± 5.5
10.0			131 ± 10.5
33.0		163 ± 1.5	121 ± 3.1
100.0	169 ± 22.0	199 ± 12.6	147 ± 8.1
333.0	202 ± 9.3	209 ± 16.0	195 ± 8.1
1000.0	202 ± 19.3	222 ± 0.9	208 ± 1.2
1666.0			
3333.0	220 ± 16.3	210 ± 11.9	
6666.0	182 ± 14.7		
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>	514 ± 18.0	654 ± 29.5	610 ± 79.4
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Rat S9</b>
Vehicle Control <sup>1</sup>	12 ± 0.9
33.0	15 ± 2.0
100.0	11 ± 1.5
333.0	8 ± 2.0
1000.0	11 ± 2.7
1666.0	12 ± 2.7
Trial Summary	Negative
Positive Control <sup>5</sup>	69 ± 4.5

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Test Compound: Asphalt fume extracts, fraction C

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**Strain: TA1538**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	18 ± 2.6	12 ± 3.2
100.0	24 ± 2.1	11 ± 1.2
166.0	32 ± 1.5	22 ± 2.0
333.0	40 ± 1.8	33 ± 1.9
1000.0	45 ± 3.1	47 ± 3.0
1666.0	52 ± 2.0	41 ± 0.7
Trial Summary	Positive	Positive
Positive Control <sup>2</sup>	822 ± 11.3	354 ± 15.9

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Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **Asphalt fume extracts, fraction C**

Time Report Requested: 07:18:50

CAS Number: **EMTDP-82****Strain: TA98**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	29 ± 5.0	29 ± 3.2	29 ± 0.0	21 ± 3.6	20 ± 2.8
33.0	25 ± 3.2				
100.0	23 ± 2.6	20 ± 2.9	26 ± 1.2	34 ± 6.6	32 ± 2.5
166.0				35 ± 5.2	28 ± 3.2
333.0	24 ± 3.4	29 ± 2.2	38 ± 4.2	46 ± 2.7	41 ± 5.2
1000.0	13 ± 1.5	35 ± 8.1	49 ± 9.5	56 ± 10.0	46 ± 5.0
1666.0	6 ± 0.3 <sup>s</sup>			58 ± 9.4	49 ± 1.7
3333.0		30 ± 3.5	36 ± 3.3		
6666.0		18 ± 5.5	26 ± 4.2		
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control <sup>2</sup>		104 ± 16.0	404 ± 15.6	335 ± 31.8	303 ± 33.7
Positive Control <sup>6</sup>	614 ± 30.3				

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**LEGEND**

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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: 5.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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