

Experiment Number: 360329

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

**G06: Ames Summary Data**

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

CAS Number: **EMTDP-81**

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

Time Report Requested: **20:26:08**

**NTP Study Number:**

360329

**Study Result:**

Positive

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## G06: Ames Summary Data

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	122 ± 9.5	158 ± 4.8	145 ± 2.1	165 ± 2.6	138 ± 11.5
10.0			150 ± 11.3	158 ± 6.4	
33.0	133 ± 12.8		159 ± 21.9	169 ± 13.5	
100.0	140 ± 9.5	199 ± 3.5	160 ± 11.0	172 ± 8.4	159 ± 3.5
166.0			156 ± 15.3	166 ± 11.3	
333.0	126 ± 10.8	272 ± 8.6	162 ± 32.2	175 ± 16.4	215 ± 2.0
666.0					
1000.0	121 ± 5.0	270 ± 21.4			258 ± 15.5
1666.0	112 ± 11.0				
3333.0		262 ± 15.2			254 ± 12.2
10000.0		213 ± 19.6			217 ± 9.0
Trial Summary	Negative	Weakly Positive	Negative	Negative	Weakly Positive
Positive Control <sup>2</sup>					506 ± 34.5
Positive Control <sup>3</sup>		365 ± 34.2	358 ± 23.4	304 ± 29.6	
Positive Control <sup>4</sup>	312 ± 9.2				

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	150 ± 6.8
10.0	
33.0	131 ± 12.2
100.0	156 ± 9.7
166.0	179 ± 10.4
333.0	197 ± 1.7
666.0	242 ± 5.7
1000.0	215 ± 10.3
1666.0	
3333.0	
10000.0	
Trial Summary	Weakly Positive
Positive Control <sup>2</sup>	784 ± 15.1
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>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	18 ± 2.9	16 ± 0.7
10.0	14 ± 2.6	
33.0	13 ± 1.0	13 ± 1.5
100.0	12 ± 2.0	7 ± 0.0
166.0	12 ± 0.6	
333.0	10 ± 1.3	11 ± 1.3
666.0		14 ± 3.4
1000.0		11 ± 3.8
Trial Summary	Negative	Negative
Positive Control <sup>3</sup>		146 ± 38.2
Positive Control <sup>5</sup>	60 ± 2.5	

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**Strain: TA1538**

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<b>Dose (ug/Plate)</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 0.3	11 ± 0.7
33.0	11 ± 2.3	
100.0	10 ± 0.9	19 ± 1.5
333.0	20 ± 0.3	36 ± 5.8
666.0		43 ± 4.5
1000.0	29 ± 0.9	51 ± 1.2
1666.0		54 ± 1.2
3333.0	24 ± 2.2	
Trial Summary	Positive	Positive
Positive Control <sup>2</sup>	177 ± 7.2	354 ± 15.9

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## G06: Ames Summary Data

Test Compound: Asphalt fume extracts, fraction B  
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## Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 1.3	23 ± 0.9	20 ± 3.1	25 ± 1.8	23 ± 2.7
33.0	17 ± 1.9		22 ± 3.5		
100.0	17 ± 2.6	32 ± 2.6	34 ± 3.8	23 ± 5.7	30 ± 4.9
333.0	13 ± 2.6	46 ± 5.4	49 ± 2.3	32 ± 1.2	50 ± 2.6
666.0					61 ± 5.5
1000.0	13 ± 1.5	55 ± 2.4	57 ± 4.7	51 ± 8.7	68 ± 9.6
1666.0	14 ± 2.6				39 ± 13.6
3333.0		56 ± 5.1	39 ± 3.5	34 ± 7.5	
10000.0		37 ± 3.9		45 ± 5.4	
Trial Summary	Negative	Positive	Positive	Equivocal	Positive
Positive Control <sup>2</sup>		81 ± 3.2	71 ± 4.0	256 ± 24.1	518 ± 24.8
Positive Control <sup>6</sup>	365 ± 15.7				

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	21 ± 3.0
33.0	
100.0	31 ± 3.7
333.0	38 ± 4.2
666.0	59 ± 3.2
1000.0	60 ± 6.7
1666.0	48 ± 5.0
3333.0	
10000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	303 ± 33.7
Positive Control <sup>6</sup>	

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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

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