

Experiment Number: 452602

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

**G06: Ames Summary Data**

Test Compound: **Asphalt fume extracts, fractions A-E**

CAS Number: **EMTDP-85**

Date Report Requested: **09/11/2018**

Time Report Requested: **03:53:44**

**NTP Study Number:**

452602

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: Asphalt fume extracts, fractions A-E

CAS Number: EMTDP-85

Date Report Requested: 09/11/2018

Time Report Requested: 03:53:44

## Strain: TA100

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>	105 ± 3.8	152 ± 3.5	135 ± 2.4	143 ± 7.4	150 ± 9.2
10.0	117 ± 11.5		121 ± 5.6		
33.0	115 ± 20.2		118 ± 8.4		
100.0	119 ± 8.6	173 ± 5.4	125 ± 4.9	149 ± 9.4	
333.0	102 ± 3.8	168 ± 4.8	122 ± 9.8	161 ± 9.9	156 ± 5.4
1000.0	105 ± 6.2	174 ± 4.5	113 ± 10.6	154 ± 5.3	160 ± 9.0
3333.0		176 ± 9.3	107 ± 10.6	179 ± 3.3	205 ± 4.5
6666.0					196 ± 10.4
10000.0		175 ± 17.4		209 ± 20.2	234 ± 25.9
Trial Summary	Negative	Negative	Negative	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>				514 ± 18.0	450 ± 11.9
Positive Control <sup>3</sup>		336 ± 14.1	357 ± 12.1		
Positive Control <sup>4</sup>	378 ± 16.3				

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	15 ± 1.5
333.0	9 ± 1.0
1000.0	12 ± 1.8
3333.0	13 ± 2.1
6666.0	15 ± 0.3
10000.0	12 ± 1.9
Trial Summary	Negative
Positive Control <sup>3</sup>	303 ± 28.2

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**Strain: TA1538**

<b>Dose (ug/Plate)</b>	<b>With 30% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 0.9	7 ± 1.2	18 ± 2.0
10.0	11 ± 3.2	9 ± 1.0	
33.0	12 ± 0.6	8 ± 2.5	
100.0	13 ± 2.2	9 ± 0.7	23 ± 2.7
333.0	14 ± 1.0	14 ± 2.3	22 ± 1.0
1000.0	20 ± 2.6	19 ± 4.1	36 ± 4.6
3333.0	37 ± 2.5	20 ± 5.5	36 ± 6.7
10000.0			44 ± 2.0
Trial Summary	Positive	Positive	Positive
Positive Control <sup>2</sup>	139 ± 10.7	85 ± 3.5	251 ± 16.3

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## G06: Ames Summary Data

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## Strain: TA98

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>	27 ± 3.5	19 ± 3.8	21 ± 1.5	20 ± 2.9	23 ± 1.3
10.0	19 ± 3.3		24 ± 5.5	21 ± 5.8	
33.0	20 ± 2.8		23 ± 3.2	21 ± 4.2	
100.0	18 ± 4.3	30 ± 4.5	17 ± 2.2	24 ± 6.0	25 ± 0.7
333.0	19 ± 1.2	26 ± 2.7	28 ± 5.0	25 ± 0.6	34 ± 2.7
1000.0	11 ± 2.8	38 ± 4.2	48 ± 0.7	41 ± 3.8	43 ± 3.0
3333.0		36 ± 7.0	48 ± 4.7	28 ± 4.0	53 ± 8.2
10000.0		34 ± 8.1			52 ± 3.7
Trial Summary	Negative	Weakly Positive	Positive	Equivocal	Positive
Positive Control <sup>2</sup>		104 ± 16.0	174 ± 22.5	85 ± 4.6	404 ± 15.6
Positive Control <sup>5</sup>	614 ± 30.3				

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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>	24 ± 3.2
10.0	
33.0	
100.0	34 ± 3.2
333.0	30 ± 5.3
1000.0	46 ± 4.5
3333.0	50 ± 3.1
10000.0	54 ± 1.5
Trial Summary	Positive
Positive Control <sup>2</sup>	284 ± 5.5
Positive Control <sup>5</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: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

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