

Experiment Number: 421793

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

G06: Ames Summary Data

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

CAS Number: **EMTDP-80**

Date Report Requested: **09/15/2018**

Time Report Requested: **05:32:42**

NTP Study Number:

421793

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	146 ± 11.6	169 ± 10.0	148 ± 7.1	128 ± 0.9	154 ± 21.2
33.0	123 ± 4.6				
100.0	144 ± 14.4	162 ± 5.0		125 ± 15.6	
333.0	112 ± 1.7	179 ± 16.7	136 ± 16.7	125 ± 9.6	164 ± 7.8
1000.0	122 ± 8.2	160 ± 13.0	135 ± 14.3	148 ± 4.5	174 ± 11.9
1666.0	124 ± 8.0		152 ± 6.6		168 ± 23.0
3333.0		157 ± 3.7	156 ± 3.3	188 ± 0.9	197 ± 12.8
6666.0			157 ± 9.2		188 ± 6.6
10000.0		133 ± 9.8		151 ± 6.1	
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²			677 ± 26.2		
Positive Control ³				506 ± 34.5	450 ± 11.9
Positive Control ⁴		365 ± 34.2			
Positive Control ⁵	312 ± 9.2				

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	131 ± 7.0
33.0	
100.0	140 ± 3.6
333.0	137 ± 9.0
1000.0	167 ± 16.8
1666.0	155 ± 10.2
3333.0	162 ± 12.5
6666.0	
10000.0	
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	610 ± 79.4
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 3.8
100.0	12 ± 0.3
333.0	14 ± 1.2
1000.0	10 ± 1.7
1666.0	12 ± 3.5
3333.0	14 ± 1.3
Trial Summary	Negative
Positive Control ⁴	146 ± 38.2

Experiment Number: 421793

Test Type: Genetic Toxicology - Bacterial
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Test Compound: Asphalt fume extracts, fraction A
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Date Report Requested: 09/15/2018

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Strain: TA1538

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 2.6	23 ± 4.1	16 ± 3.3	16 ± 2.6
333.0			24 ± 1.3	19 ± 3.5
1000.0	21 ± 3.5	29 ± 1.7	32 ± 3.0	27 ± 2.1
1666.0	14 ± 2.8	26 ± 0.9		
3333.0	18 ± 1.2	27 ± 2.1	35 ± 3.2	37 ± 0.3
6666.0	18 ± 1.7	33 ± 2.2	37 ± 2.9	36 ± 1.7
10000.0	20 ± 1.9	42 ± 0.7	37 ± 4.1	35 ± 7.0
Trial Summary	Negative	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²	421 ± 22.2			
Positive Control ³		251 ± 16.3	354 ± 15.9	346 ± 28.1

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Date Report Requested: 09/15/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 3.7	24 ± 0.9	19 ± 2.3	20 ± 2.5	22 ± 4.4
33.0	14 ± 4.2				
100.0	10 ± 0.9	21 ± 5.2		15 ± 1.5	
333.0	14 ± 0.9	22 ± 2.3		16 ± 1.5	
1000.0	14 ± 2.7	24 ± 4.5	28 ± 2.5	19 ± 3.5	27 ± 2.7
1666.0	15 ± 2.0		27 ± 4.1		30 ± 4.8
3333.0		29 ± 4.6	31 ± 3.5	29 ± 0.9	35 ± 7.4
6666.0			31 ± 6.6		33 ± 0.9
10000.0		33 ± 4.6	25 ± 2.4	31 ± 5.5	47 ± 5.1
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control ²			482 ± 10.9		
Positive Control ³		81 ± 3.2		256 ± 24.1	284 ± 5.5
Positive Control ⁶	365 ± 15.7				

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	26 ± 3.3	15 ± 2.3
33.0		
100.0		
333.0	25 ± 5.8	24 ± 2.3
1000.0	32 ± 4.1	24 ± 3.2
1666.0		
3333.0	37 ± 3.7	38 ± 3.1
6666.0	35 ± 3.5	44 ± 1.5
10000.0	39 ± 12.6	37 ± 1.7
Trial Summary	Negative	Positive
Positive Control ²		
Positive Control ³	303 ± 33.7	196 ± 56.7
Positive Control ⁶		

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

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

**** END OF REPORT ****