

Experiment Number: 719358

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

G06: Ames Summary Data

Test Compound: **Xylenes (mixed)**

CAS Number: 1330-20-7

Date Report Requested: **09/12/2018**

Time Report Requested: **00:48:17**

NTP Study Number:

719358

Study Result:

Negative

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Test Compound: Xylenes (mixed)

CAS Number: 1330-20-7

Date Report Requested: 09/12/2018

Time Report Requested: 00:48:17

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	118 ± 8.2	155 ± 5.5	82 ± 2.4	91 ± 4.2	166 ± 9.2
3.3	120 ± 7.0	149 ± 5.5	84 ± 6.7	82 ± 5.0	159 ± 2.5
10.0	114 ± 9.8	155 ± 8.2 ^s	90 ± 9.1	79 ± 8.1	175 ± 7.3
33.0	108 ± 3.7	151 ± 2.0 ^s	88 ± 4.7	94 ± 3.5	155 ± 14.1
100.0	125 ± 7.2	127 ± 0.9 ^s	79 ± 4.7	74 ± 1.2	122 ± 3.4
200.0	114 ± 4.7 ^s	104 ± 5.6 ^s	84 ± 5.8 ^s	84 ± 8.0 ^s	124 ± 11.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	302 ± 5.0	223 ± 10.1			
Positive Control ³					
Positive Control ⁴			440 ± 9.8		
Positive Control ⁵					807 ± 21.4
Positive Control ⁶					
Positive Control ⁷				1329 ± 29.9	
Positive Control ⁸					
Positive Control ⁹					

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	168 ± 7.4	80 ± 1.5	155 ± 3.5	133 ± 9.5
3.3	174 ± 9.1	83 ± 3.4	163 ± 11.1	136 ± 6.3
10.0	184 ± 12.7	67 ± 2.9	155 ± 6.1	117 ± 2.7
33.0	154 ± 6.9	83 ± 7.9	149 ± 10.8	137 ± 3.5
100.0	178 ± 4.1	74 ± 4.7	118 ± 11.9 ^s	125 ± 4.3
200.0	161 ± 6.7	74 ± 5.2 ^s	98 ± 0.3 ^s	112 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²				
Positive Control ³			456 ± 11.3	
Positive Control ⁴				
Positive Control ⁵		894 ± 10.9		
Positive Control ⁶				364 ± 9.2
Positive Control ⁷				
Positive Control ⁸	844 ± 31.7			
Positive Control ⁹				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	26 ± 1.5	16 ± 3.4	7 ± 1.2	15 ± 0.0	16 ± 0.9
3.3	26 ± 3.8	18 ± 3.8	10 ± 2.3	14 ± 3.2	15 ± 1.7
10.0	23 ± 1.5	21 ± 0.0	9 ± 1.5	10 ± 0.7	11 ± 1.8
33.0	22 ± 1.5	18 ± 2.1	10 ± 2.2	13 ± 1.9	17 ± 1.5
100.0	19 ± 2.6	14 ± 3.2	12 ± 3.5	10 ± 3.1 ^s	13 ± 0.6
200.0	21 ± 2.6 ^s	11 ± 2.0 ^s	7 ± 1.5 ^s	11 ± 1.2 ^s	12 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	107 ± 7.0				
Positive Control ³					
Positive Control ⁴		310 ± 22.7			
Positive Control ⁵					
Positive Control ⁶					
Positive Control ⁷			100 ± 10.3		116 ± 5.2
Positive Control ⁸				138 ± 8.6	
Positive Control ⁹					

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Xylenes (mixed)

CAS Number: 1330-20-7

Date Report Requested: 09/12/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.3	14 ± 4.4	11 ± 1.2
3.3	15 ± 1.2	15 ± 1.7	10 ± 1.2
10.0	8 ± 2.0	14 ± 1.8	13 ± 1.8
33.0	9 ± 1.5	14 ± 2.8	13 ± 1.5
100.0	9 ± 2.9	12 ± 3.2 ^s	11 ± 1.2
200.0	9 ± 1.5 ^s	5 ± 1.5 ^s	16 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ²			
Positive Control ³		50 ± 3.7	
Positive Control ⁴			
Positive Control ⁵	79 ± 2.5		
Positive Control ⁶			86 ± 1.2
Positive Control ⁷			
Positive Control ⁸			
Positive Control ⁹			

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	98 ± 4.9	95 ± 3.3	92 ± 11.0	177 ± 8.1	193 ± 7.8
3.3	103 ± 7.2	111 ± 4.4	104 ± 7.5	194 ± 7.2	202 ± 15.0
10.0	99 ± 1.5	104 ± 5.9	104 ± 1.2	152 ± 9.5	200 ± 10.7
33.0	94 ± 6.7	98 ± 7.2 ^s	119 ± 9.8	146 ± 20.3	217 ± 4.5
100.0	95 ± 5.0	106 ± 4.9 ^s	115 ± 8.0	120 ± 10.4 ^s	221 ± 6.0
200.0	93 ± 4.1 ^s	93 ± 10.1 ^s	112 ± 8.2	108 ± 5.8 ^s	213 ± 15.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁵					
Positive Control ⁶					
Positive Control ⁷			937 ± 19.0		
Positive Control ⁸				1579 ± 48.6	523 ± 20.4
Positive Control ¹⁰	296 ± 15.8	1251 ± 40.8			
Positive Control ¹¹					

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	120 ± 9.9	144 ± 9.8	176 ± 9.1
3.3	104 ± 1.0	145 ± 5.4	175 ± 10.1
10.0	93 ± 6.4	162 ± 5.8	198 ± 11.0
33.0	101 ± 4.4	134 ± 14.8	207 ± 15.9
100.0	93 ± 10.7	132 ± 5.2 ^s	165 ± 1.9
200.0	87 ± 12.0 ^s	112 ± 5.2 ^s	184 ± 3.2
Trial Summary	Negative	Negative	Negative
Positive Control ³		406 ± 21.9	
Positive Control ⁵	531 ± 19.6		
Positive Control ⁶			301 ± 4.3
Positive Control ⁷			
Positive Control ⁸			
Positive Control ¹⁰			
Positive Control ¹¹			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	16 ± 2.4	18 ± 2.3	83 ± 2.4	28 ± 2.0	28 ± 5.2
3.3	19 ± 1.5	20 ± 2.7	84 ± 3.2	29 ± 0.0	23 ± 2.1
10.0	18 ± 1.2	20 ± 3.8	91 ± 5.7	30 ± 2.2	29 ± 4.9
33.0	24 ± 1.2	25 ± 3.5	83 ± 4.4	42 ± 2.0	28 ± 1.0
100.0	23 ± 4.2	18 ± 1.8 ^s	94 ± 4.0	43 ± 3.0	28 ± 1.7
200.0	15 ± 1.2	18 ± 3.7 ^s	46 ± 2.3 ^s	29 ± 4.9 ^s	26 ± 2.0
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ¹²					
Positive Control ³				220 ± 11.3	270 ± 9.0
Positive Control ⁵					
Positive Control ¹³	168 ± 11.2	168 ± 5.0			
Positive Control ⁶					
Positive Control ⁷			923 ± 19.5		
Positive Control ¹⁴					

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	33 ± 2.2	90 ± 10.6	39 ± 3.4	32 ± 4.7
3.3	32 ± 0.9	94 ± 2.0	37 ± 3.3	31 ± 2.3
10.0	28 ± 2.0	91 ± 5.0	33 ± 2.9	31 ± 2.1
33.0	33 ± 0.7	91 ± 6.8	35 ± 2.2	27 ± 2.2
100.0	30 ± 1.2	88 ± 10.0	35 ± 3.2	26 ± 2.7
200.0	32 ± 2.2 ^s	50 ± 4.9 ^s	27 ± 5.9 ^s	28 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ¹²			137 ± 10.0	
Positive Control ³				67 ± 7.4
Positive Control ⁵		691 ± 50.5		
Positive Control ¹³				
Positive Control ⁶	122 ± 3.1			
Positive Control ⁷				
Positive Control ¹⁴				

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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: 0.25 ug/Plate Sodium Azide

3: 0.4 ug/Plate 2-Aminoanthracene

4: 0.5 ug/Plate Sodium Azide

5: 0.75 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 2-Aminoanthracene

7: 1.5 ug/Plate 2-Aminoanthracene

8: 2.0 ug/Plate 2-Aminoanthracene

9: 2.5 ug/Plate Sodium Azide

10: 3.5 ug/Plate 9-Aminoacridine

11: 4.0 ug/Plate 9-Aminoacridine

12: 0.2 ug/Plate 2-Aminoanthracene

13: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

14: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****