

Experiment Number: 129225

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

G06: Ames Summary Data

Test Compound: **Eosin**

CAS Number: 17372-87-1

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

Time Report Requested: **07:33:52**

NTP Study Number:

129225

Study Result:

Positive

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Test Compound: Eosin
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Date Report Requested: 09/12/2018
Time Report Requested: 07:33:52

Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	119 ± 8.2	149 ± 6.1	157 ± 13.4
100.0	145 ± 5.7	171 ± 4.1	120 ± 10.7
333.0	140 ± 10.4	163 ± 7.3	168 ± 4.8
1000.0	144 ± 6.9	174 ± 13.9	171 ± 8.3
3333.0	150 ± 5.0	140 ± 3.2	144 ± 3.3
10000.0	120 ± 3.2	134 ± 9.5	137 ± 3.2
Trial Summary	Negative	Negative	Negative
Positive Control ²			768 ± 28.6
Positive Control ³	431 ± 5.5		
Positive Control ⁴		672 ± 1.2	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 2.0	11 ± 1.9	12 ± 1.5	9 ± 1.8	11 ± 1.9
100.0	26 ± 1.5	13 ± 0.9			
333.0	24 ± 2.2	20 ± 2.5			
1000.0	27 ± 1.7	16 ± 1.5	16 ± 1.9	14 ± 0.7	10 ± 1.5
3333.0	28 ± 2.5	12 ± 2.3	17 ± 0.9	12 ± 0.0	11 ± 1.8
6666.0			26 ± 4.5	31 ± 6.4	20 ± 6.8
10000.0	24 ± 6.0	12 ± 1.5	34 ± 1.8	38 ± 6.8	29 ± 5.4
15000.0			32 ± 1.9	38 ± 5.9	27 ± 4.5
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			365 ± 23.8	233 ± 2.2	171 ± 17.8
Positive Control ³	679 ± 11.1				
Positive Control ⁴					
Positive Control ⁵		186 ± 4.5			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.9	13 ± 0.9	11 ± 0.9
100.0	10 ± 2.6	11 ± 1.5	
333.0	9 ± 0.6	14 ± 1.2	
1000.0	11 ± 2.3	10 ± 1.5	12 ± 2.5
3333.0	9 ± 1.9	10 ± 1.2	13 ± 1.5
6666.0			14 ± 3.2
10000.0	24 ± 3.9	25 ± 0.0	33 ± 3.3
15000.0			31 ± 2.7
Trial Summary	Equivocal	Equivocal	Positive
Positive Control ²			
Positive Control ³			
Positive Control ⁴	698 ± 29.8	501 ± 67.3	390 ± 21.7
Positive Control ⁵			

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.7	14 ± 1.8	10 ± 2.6
100.0	12 ± 1.5	12 ± 2.9	11 ± 1.5
333.0	12 ± 1.8	14 ± 1.5	15 ± 1.3
1000.0	12 ± 2.3	16 ± 0.9	13 ± 2.9
3333.0	13 ± 5.2	11 ± 0.9	13 ± 2.0
10000.0	8 ± 2.1	9 ± 0.6	8 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control ²			64 ± 3.8
Positive Control ⁴		49 ± 2.9	
Positive Control ⁶	742 ± 61.5		

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Strain: TA97

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	160 ± 11.0	161 ± 5.9	198 ± 2.6	141 ± 19.5	186 ± 11.4
100.0	169 ± 8.7	196 ± 4.3	204 ± 8.1	200 ± 8.4	204 ± 1.0
333.0	157 ± 2.9	179 ± 4.0	211 ± 1.8	200 ± 7.8	235 ± 14.7
666.0		195 ± 15.1	200 ± 11.7		
1000.0	148 ± 4.5	190 ± 14.0	185 ± 17.6	240 ± 11.2	298 ± 13.5
1666.0		167 ± 25.1	204 ± 11.5		
3333.0	123 ± 3.2			231 ± 15.4	257 ± 11.3
10000.0	81 ± 11.9			152 ± 13.3	131 ± 7.4
Trial Summary	Negative	Negative	Negative	Equivocal	Weakly Positive
Positive Control ⁷					
Positive Control ²		494 ± 22.3	355 ± 13.1		
Positive Control ⁴				355 ± 5.9	317 ± 21.4
Positive Control ⁶	588 ± 28.9				

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	220 ± 6.6	183 ± 21.4	155 ± 4.4	173 ± 7.0	142 ± 21.1
100.0	241 ± 17.8	223 ± 11.8	167 ± 11.1	169 ± 13.7	182 ± 10.7
333.0	230 ± 17.6	239 ± 7.8	185 ± 3.0	196 ± 3.8	185 ± 0.7
666.0	254 ± 3.7	244 ± 11.8			
1000.0	242 ± 8.7	256 ± 3.0	176 ± 12.7	176 ± 12.0	200 ± 15.1
1666.0	253 ± 17.6	210 ± 4.4			
3333.0			172 ± 8.1	163 ± 14.9	202 ± 13.2
10000.0			136 ± 20.3	116 ± 13.2	138 ± 7.1
Trial Summary	Negative	Equivocal	Negative	Negative	Equivocal
Positive Control ⁷			746 ± 72.3	623 ± 27.2	
Positive Control ²					456 ± 20.5
Positive Control ⁴	468 ± 32.3	353 ± 12.0			
Positive Control ⁶					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	152 ± 5.8	200 ± 0.6
100.0	190 ± 10.4	200 ± 17.5
333.0	204 ± 10.3	235 ± 15.9
666.0		
1000.0	199 ± 9.0	223 ± 2.0
1666.0		
3333.0	180 ± 4.6	205 ± 13.7
10000.0	129 ± 1.2	132 ± 4.9
Trial Summary	Equivocal	Negative
Positive Control ⁷		
Positive Control ²	422 ± 18.1	497 ± 13.3
Positive Control ⁴		
Positive Control ⁶		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	17 ± 3.4	47 ± 2.5	23 ± 4.0
100.0	14 ± 0.7	41 ± 2.4	29 ± 2.0
333.0	13 ± 1.7	45 ± 3.3	30 ± 3.9
1000.0	16 ± 2.0	30 ± 1.2	28 ± 2.3
3333.0	9 ± 2.3	23 ± 3.3	19 ± 2.1
10000.0	10 ± 2.2	17 ± 2.9	17 ± 2.6
Trial Summary	Negative	Negative	Negative
Positive Control ²		135 ± 6.9	528 ± 35.3
Positive Control ⁸	448 ± 41.4		

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 0.5 ug/Plate 2-Aminoanthracene

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****