

Experiment Number: 108538

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Luminol

CAS Number: 521-31-3

Date Report Requested: 09/11/2018

Time Report Requested: 19:16:24

NTP Study Number:

108538

Study Result:

Negative

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Test Compound: Luminol
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Date Report Requested: 09/11/2018
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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	86 ± 4.2	100 ± 4.8	112 ± 1.5	103 ± 5.2	108 ± 7.5
100.0	79 ± 3.9	91 ± 4.3	126 ± 4.1	102 ± 4.3	100 ± 23.5
333.0	68 ± 8.1	88 ± 3.7	87 ± 0.9	124 ± 7.0	85 ± 6.8
1000.0	63 ± 5.1	93 ± 3.5	106 ± 8.8	101 ± 3.1	74 ± 1.2
3333.0	49 ± 2.1	56 ± 3.8	94 ± 2.7	93 ± 15.3	71 ± 2.1
10000.0	9 ± 0.3 ^p	17 ± 4.3 ^p	72 ± 4.2 ^p	63 ± 5.8 ^p	53 ± 3.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					221 ± 11.8
Positive Control ³	328 ± 2.8	269 ± 22.5			
Positive Control ⁴			333 ± 7.6		
Positive Control ⁵					
Positive Control ⁶				286 ± 32.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	108 ± 2.0
100.0	124 ± 8.9
333.0	107 ± 3.4
1000.0	104 ± 1.8
3333.0	90 ± 8.1
10000.0	69 ± 10.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	276 ± 21.2
Positive Control ⁶	

Experiment Number: 108538

G06: Ames Summary Data

Date Report Requested: 09/11/2018

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

Test Compound: Luminol

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.5	11 ± 1.5	16 ± 2.1	11 ± 2.4	7 ± 1.9
100.0	23 ± 2.0	12 ± 0.3	10 ± 3.2	18 ± 3.2	7 ± 1.2
333.0	16 ± 2.2	12 ± 0.7	7 ± 2.2	8 ± 2.3	6 ± 1.5
1000.0	15 ± 2.7	10 ± 2.1	7 ± 2.0	8 ± 0.9	6 ± 1.2
3333.0	9 ± 0.9	6 ± 0.9	5 ± 0.3	8 ± 1.7	3 ± 0.9
10000.0	4 ± 1.0 ^p	1 ± 0.9 ^p	4 ± 0.0 ^p	5 ± 1.2 ^p	2 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					25 ± 2.6
Positive Control ³	152 ± 6.5	140 ± 11.4			
Positive Control ⁵					
Positive Control ⁶			133 ± 6.6	91 ± 6.2	

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Date Report Requested: 09/11/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.5
100.0	7 ± 1.2
333.0	9 ± 0.9
1000.0	7 ± 1.5
3333.0	6 ± 0.7
10000.0	2 ± 1.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	101 ± 1.0
Positive Control ⁶	

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Date Report Requested: 09/11/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 2.0	6 ± 0.6	7 ± 2.7	7 ± 0.6	6 ± 0.7
100.0	4 ± 0.9	5 ± 1.9	6 ± 1.7	8 ± 4.2	5 ± 0.9
333.0	4 ± 0.9	8 ± 0.6	10 ± 2.7	5 ± 1.2	6 ± 1.7
1000.0	4 ± 0.9	4 ± 0.9	8 ± 0.9	9 ± 1.7	7 ± 2.2
3333.0	3 ± 0.9	4 ± 1.3	8 ± 1.8	5 ± 1.5	4 ± 0.9
10000.0	3 ± 1.2 ^p	3 ± 0.3 ^p	4 ± 0.9 ^p	6 ± 2.5 ^p	5 ± 1.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					182 ± 12.0
Positive Control ⁶			164 ± 7.5		
Positive Control ⁷				24 ± 5.4	
Positive Control ⁸	407 ± 21.0	79 ± 2.8			

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Date Report Requested: 09/11/2018
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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	6 ± 1.2
100.0	5 ± 1.3
333.0	5 ± 0.9
1000.0	8 ± 1.2
3333.0	7 ± 2.1
10000.0	6 ± 1.5 ^p
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	84 ± 3.5
Positive Control ⁸	

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CAS Number: 521-31-3

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	102 ± 12.9	114 ± 4.9	143 ± 21.3	176 ± 3.0	102 ± 5.2
100.0	88 ± 8.8	105 ± 11.3	147 ± 3.3	175 ± 4.1	103 ± 13.6
333.0	83 ± 3.0	92 ± 9.1	158 ± 9.9	151 ± 24.5	95 ± 9.1
1000.0	89 ± 9.0	95 ± 7.5	135 ± 9.7	156 ± 7.8	100 ± 6.2
3333.0	27 ± 10.2	67 ± 3.2	108 ± 1.7	106 ± 8.5	77 ± 2.2
10000.0	0 ± 0.3 ^p	0 ± 0.3 ^p	9 ± 0.9 ^p	1 ± 0.6 ^p	8 ± 1.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					485 ± 9.6
Positive Control ⁶			811 ± 21.2		
Positive Control ⁷				344 ± 12.0	
Positive Control ⁹	1575 ± 26.5	617 ± 49.9			

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Date Report Requested: 09/11/2018
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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	168 ± 6.1
100.0	207 ± 17.0
333.0	182 ± 20.3
1000.0	212 ± 19.7
3333.0	123 ± 5.8
10000.0	15 ± 2.0 ^p
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	832 ± 18.7
Positive Control ⁹	

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Test Compound: Luminol

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Date Report Requested: 09/11/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.2	15 ± 4.4	25 ± 6.5	25 ± 1.2	29 ± 2.6
100.0	11 ± 3.1	15 ± 2.6	29 ± 3.5	20 ± 0.9	25 ± 1.7
333.0	12 ± 2.4	13 ± 2.6	25 ± 4.5	28 ± 2.3	29 ± 3.5
1000.0	10 ± 1.3	9 ± 0.7	22 ± 0.3	20 ± 3.8	23 ± 3.2
3333.0	9 ± 1.2	8 ± 0.3	16 ± 1.7	15 ± 1.5	23 ± 1.3
10000.0	3 ± 1.8 ^p	1 ± 0.6 ^p	9 ± 2.1 ^p	9 ± 1.2 ^p	9 ± 1.9 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					219 ± 9.3
Positive Control ²			70 ± 10.0		
Positive Control ¹¹	181 ± 5.5	174 ± 13.3			
Positive Control ⁵				62 ± 3.6	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 4.9
100.0	27 ± 3.7
333.0	25 ± 1.5
1000.0	24 ± 0.3
3333.0	21 ± 5.8
10000.0	11 ± 1.3 ^p
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	72 ± 4.6
Positive Control ¹¹	
Positive Control ⁵	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

** END OF REPORT **