

Experiment Number: 505711

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diethylbutylamine

CAS Number: 4444-68-2

Date Report Requested: 09/12/2018

Time Report Requested: 05:51:20

NTP Study Number:

505711

Study Result:

Negative

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Test Compound: Diethylbutylamine

CAS Number: 4444-68-2

Date Report Requested: 09/12/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	132 ± 2.3	149 ± 0.0	153 ± 2.1	129 ± 2.9	160 ± 14.5
10.0	102 ± 4.3				
33.0	120 ± 1.5	157 ± 10.0	143 ± 1.8	138 ± 7.5	153 ± 10.1
100.0	115 ± 4.5	146 ± 8.3	134 ± 4.7	148 ± 13.4	157 ± 4.2
333.0	127 ± 2.1	166 ± 12.2	138 ± 7.9	141 ± 9.1	150 ± 6.1
1000.0	126 ± 3.0 ^S	159 ± 2.6	137 ± 11.0	132 ± 9.5	147 ± 1.8
2000.0		140 ± 4.1 ^S	123 ± 7.4	117 ± 8.5 ^S	150 ± 2.3 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				432 ± 17.1	
Positive Control ⁴					
Positive Control ⁵					361 ± 3.5
Positive Control ⁶		1968 ± 27.8			
Positive Control ⁷			841 ± 29.2		
Positive Control ⁸	1884 ± 119.1				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	26 ± 1.0	26 ± 1.8	24 ± 4.4	23 ± 2.4	20 ± 1.8
10.0	31 ± 3.9				
33.0	33 ± 3.2	27 ± 6.4	28 ± 1.8	23 ± 2.3	23 ± 1.3
100.0	31 ± 2.0	26 ± 0.9	25 ± 2.6	24 ± 3.5	21 ± 0.3
333.0	35 ± 3.1	27 ± 1.8	29 ± 3.5	23 ± 2.4	17 ± 0.9
1000.0	30 ± 5.0	19 ± 2.3	26 ± 2.6	27 ± 4.9	20 ± 1.5
2000.0		20 ± 6.6 ^s	32 ± 7.3	26 ± 2.1 ^s	29 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				46 ± 3.8	
Positive Control ⁴					
Positive Control ⁵					75 ± 5.5
Positive Control ⁹		115 ± 5.6			
Positive Control ⁶			100 ± 2.6		
Positive Control ⁸	768 ± 36.6				

Experiment Number: 505711

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Diethylbutylamine

CAS Number: 4444-68-2

Date Report Requested: 09/12/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	67 ± 20.8	96 ± 6.6	98 ± 6.3	146 ± 10.9	160 ± 10.4
10.0	93 ± 12.4	97 ± 19.0	114 ± 2.0		
33.0	122 ± 3.5	113 ± 4.4	97 ± 4.0	148 ± 4.0	162 ± 9.6
100.0	112 ± 1.7	96 ± 2.4	105 ± 4.4	168 ± 4.3	159 ± 7.7
333.0	93 ± 6.2	103 ± 2.3	91 ± 3.8	153 ± 2.0	160 ± 3.0
1000.0	61 ± 2.1	89 ± 7.0 ^S	93 ± 10.4 ^S	165 ± 6.0	163 ± 5.0
2000.0				162 ± 6.0	173 ± 13.9
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵					
Positive Control ⁶				1169 ± 40.3	
Positive Control ⁷					389 ± 38.1
Positive Control ¹⁰		649 ± 30.7	1067 ± 32.0		
Positive Control ¹¹	216 ± 17.3				

Experiment Number: 505711

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Diethylbutylamine

CAS Number: 4444-68-2

Date Report Requested: 09/12/2018

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	118 ± 2.0	166 ± 6.4
10.0		
33.0	115 ± 5.5	168 ± 2.2
100.0	130 ± 3.0	146 ± 2.3
333.0	131 ± 2.6	158 ± 2.3
1000.0	126 ± 5.2	176 ± 13.4
2000.0	127 ± 1.5 ^s	158 ± 11.6 ^s
Trial Summary	Negative	Negative
Positive Control ³	388 ± 11.0	
Positive Control ⁴		
Positive Control ⁵		257 ± 6.3
Positive Control ⁶		
Positive Control ⁷		
Positive Control ¹⁰		
Positive Control ¹¹		

Experiment Number: 505711

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Diethylbutylamine

CAS Number: 4444-68-2

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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	43 ± 5.6	22 ± 2.5	61 ± 2.3	34 ± 1.8	37 ± 3.5
10.0	41 ± 4.7	20 ± 2.7			
33.0	45 ± 5.0	21 ± 3.5	57 ± 3.8	36 ± 3.8	33 ± 3.4
100.0	41 ± 7.7	23 ± 3.2	55 ± 2.3	36 ± 3.2	35 ± 3.7
333.0	31 ± 4.1	18 ± 1.7	58 ± 6.5	33 ± 1.7	33 ± 0.6
1000.0	30 ± 5.2	16 ± 2.7	57 ± 5.7	40 ± 2.3	37 ± 3.2
2000.0			58 ± 3.5	37 ± 5.7	36 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹²					163 ± 2.7
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵				126 ± 16.1	
Positive Control ¹³		130 ± 14.2			
Positive Control ⁶			1494 ± 36.3		
Positive Control ¹⁴	1824 ± 14.2				

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Test Type: Genetic Toxicology - Bacterial
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Test Compound: Diethylbutylamine

CAS Number: 4444-68-2

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	34 ± 4.0
10.0	
33.0	30 ± 1.2
100.0	31 ± 1.5
333.0	38 ± 2.5
1000.0	44 ± 3.5
2000.0	31 ± 5.0
Trial Summary	Negative
Positive Control ¹²	
Positive Control ³	67 ± 2.0
Positive Control ⁴	
Positive Control ⁵	
Positive Control ¹³	
Positive Control ⁶	
Positive Control ¹⁴	

Experiment Number: 505711

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

G06: Ames Summary Data

Test Compound: **Diethylbutylamine**

CAS Number: **4444-68-2**

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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: 95% Ethanol
- 2: 0.25 ug/Plate Sodium Azide
- 3: 0.4 ug/Plate 2-Aminoanthracene
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 1.5 ug/Plate 2-Aminoanthracene
- 7: 2.0 ug/Plate 2-Aminoanthracene
- 8: 2.5 ug/Plate Sodium Azide
- 9: 1.5 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 ****