

Experiment Number: A30725

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Aminocyclopentane carboxylic acid

CAS Number: 52-52-8

Date Report Requested: 09/16/2018

Time Report Requested: 15:22:45

NTP Study Number:

A30725

Study Result:

Negative

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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	109 ± 5.0	110 ± 12.8	105 ± 9.3	126 ± 4.9	125 ± 14.6
100.0	114 ± 2.0	94 ± 1.7	101 ± 5.7	125 ± 11.5	102 ± 4.0
333.0	105 ± 8.8	99 ± 4.1	107 ± 6.1	112 ± 11.3	102 ± 4.7
1000.0	108 ± 6.1	87 ± 7.5	107 ± 1.7	112 ± 6.7	92 ± 7.8
3333.0	114 ± 2.3	98 ± 6.0	90 ± 8.7	108 ± 5.2	106 ± 2.7
10000.0	98 ± 0.6	98 ± 6.2	105 ± 3.2	86 ± 6.5	94 ± 10.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					420 ± 5.7
Positive Control ³			330 ± 14.7		
Positive Control ⁴	1243 ± 23.2	874 ± 16.2			
Positive Control ⁵				458 ± 11.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	116 ± 4.6
100.0	132 ± 7.6
333.0	113 ± 3.3
1000.0	107 ± 8.8
3333.0	123 ± 3.3
10000.0	100 ± 5.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	548 ± 24.9
Positive Control ⁴	
Positive Control ⁵	

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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	8 ± 0.9	9 ± 0.3	10 ± 2.1	16 ± 1.9	13 ± 3.4
100.0	7 ± 0.3	13 ± 1.7	9 ± 1.5	13 ± 0.7	8 ± 0.6
333.0	6 ± 0.7	11 ± 2.1	8 ± 0.6	12 ± 1.5	10 ± 2.7
1000.0	8 ± 0.0	9 ± 0.6	7 ± 1.5	10 ± 1.5	8 ± 0.7
3333.0	7 ± 0.3	13 ± 2.2	11 ± 1.5	10 ± 1.5	13 ± 3.0
10000.0	7 ± 1.9	6 ± 2.2	12 ± 2.9	11 ± 1.5	12 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					85 ± 4.1
Positive Control ⁴	879 ± 18.5	855 ± 22.2			
Positive Control ⁵			115 ± 2.3		
Positive Control ⁶				142 ± 15.9	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 0.9
100.0	11 ± 0.7
333.0	9 ± 0.3
1000.0	8 ± 0.0
3333.0	10 ± 0.6
10000.0	12 ± 0.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	308 ± 15.0
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	141 ± 3.7	115 ± 5.2	139 ± 11.1	167 ± 11.8	162 ± 8.1
0.0	0 ± 0.0				
100.0	135 ± 3.8	113 ± 4.9	149 ± 3.9	164 ± 11.6	162 ± 3.3
333.0	144 ± 6.2	118 ± 4.5	166 ± 3.0	157 ± 9.7	167 ± 4.3
1000.0	148 ± 8.1	123 ± 10.4	161 ± 10.4	156 ± 3.4	173 ± 1.9
3333.0	157 ± 4.7	117 ± 7.3	151 ± 11.3	147 ± 14.6	150 ± 5.8
10000.0	141 ± 20.0	118 ± 3.0	127 ± 6.7	146 ± 6.2	169 ± 9.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			436 ± 7.8		
Positive Control ³					522 ± 1.8
Positive Control ⁵				424 ± 6.5	
Positive Control ⁷	372 ± 19.1	437 ± 20.0			

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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	23 ± 3.1	24 ± 1.3	24 ± 1.5	29 ± 2.3	26 ± 3.5
100.0	15 ± 0.3	21 ± 3.0	29 ± 0.6	28 ± 6.6	28 ± 2.7
333.0	19 ± 0.9	18 ± 2.0	25 ± 1.9	24 ± 2.3	24 ± 2.0
1000.0	16 ± 1.7	18 ± 2.6	29 ± 2.1	25 ± 2.9	25 ± 0.7
3333.0	18 ± 1.5	20 ± 2.3	18 ± 3.5	21 ± 2.7	23 ± 4.2
10000.0	12 ± 3.6	17 ± 1.3	20 ± 3.2	22 ± 2.4	28 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					226 ± 20.2
Positive Control ³			146 ± 10.3		
Positive Control ⁸	266 ± 17.6	274 ± 14.8			
Positive Control ⁵				320 ± 14.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 2.9
100.0	25 ± 1.5
333.0	25 ± 3.8
1000.0	25 ± 3.0
3333.0	26 ± 1.2
10000.0	19 ± 0.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	393 ± 32.5
Positive Control ⁸	
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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****