

Experiment Number: 419564

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isoamyl nitrite

CAS Number: 110-46-3

Date Report Requested: 09/15/2018

Time Report Requested: 00:03:41

NTP Study Number:

419564

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	145 ± 1.5	147 ± 6.6	130 ± 9.8	154 ± 16.5	147 ± 13.1
10.0	175 ± 8.0				
33.0	159 ± 12.0	149 ± 7.8	143 ± 15.2	175 ± 6.4	
100.0	152 ± 9.0	152 ± 8.1	142 ± 4.9	181 ± 16.6	148 ± 3.0
333.0	175 ± 11.3	168 ± 2.7	175 ± 7.5	190 ± 3.8	192 ± 4.8
1000.0	191 ± 5.5	197 ± 11.2	0 ± 0.0 ^s	212 ± 5.8	184 ± 11.6
3333.0		223 ± 11.0	Toxic	204 ± 9.2	213 ± 13.9
6666.0					223 ± 38.5
Trial Summary	Negative	Weakly Positive	Equivocal	Equivocal	Equivocal
Positive Control ²				1055 ± 61.4	986 ± 15.6
Positive Control ³	321 ± 11.7	396 ± 9.0	465 ± 21.4		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 4.3	160 ± 11.8	141 ± 14.4	144 ± 4.7
10.0				
33.0	156 ± 7.5	153 ± 10.8		167 ± 2.0
100.0	170 ± 4.0	165 ± 7.2	151 ± 13.8	150 ± 17.1
333.0	183 ± 2.6	160 ± 15.0	160 ± 7.9	181 ± 2.0
1000.0	162 ± 7.5	198 ± 9.0	145 ± 15.2	161 ± 3.5
3333.0	5 ± 3.5 ^s	233 ± 1.8	Toxic	71 ± 40.4 ^s
6666.0			Toxic	
Trial Summary	Equivocal	Equivocal	Negative	Equivocal
Positive Control ²	688 ± 12.7	2113 ± 4.8	2207 ± 108.8	1121 ± 67.6
Positive Control ³				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	21 ± 3.7	15 ± 0.9	21 ± 4.1	7 ± 2.5	5 ± 0.9
10.0	21 ± 2.0				
33.0	21 ± 3.3	21 ± 1.5	18 ± 1.2	8 ± 3.1	
100.0	27 ± 3.0	22 ± 3.1	28 ± 1.5	15 ± 1.2	14 ± 3.6
333.0	28 ± 5.8	34 ± 6.0	31 ± 3.6	22 ± 4.4	24 ± 6.5
1000.0	35 ± 8.4	34 ± 3.0	0 ± 0.0 ^s	34 ± 2.3	23 ± 0.9
3333.0		45 ± 6.5	Toxic	38 ± 5.2	59 ± 8.9
6666.0					76 ± 13.4
Trial Summary	Negative	Positive	Negative	Positive	Positive
Positive Control ³	384 ± 17.9	320 ± 28.5	546 ± 4.8		
Positive Control ⁴				255 ± 18.4	186 ± 0.6

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 0.6	10 ± 1.7	15 ± 1.5	15 ± 1.2
10.0				
33.0	12 ± 1.3	15 ± 0.3		10 ± 1.7
100.0	17 ± 2.3	18 ± 6.2	22 ± 5.5	21 ± 3.7
333.0	24 ± 2.8	21 ± 3.5	28 ± 0.9	28 ± 1.2
1000.0	27 ± 1.0	46 ± 3.8	26 ± 5.0	33 ± 4.3
3333.0	12 ± 8.0 ^s	56 ± 8.7	Toxic	6 ± 5.7 ^s
6666.0			Toxic	
Trial Summary	Equivocal	Positive	Equivocal	Weakly Positive
Positive Control ³				
Positive Control ⁴	171 ± 13.3	429 ± 31.8	548 ± 20.4	453 ± 15.6

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.6	13 ± 2.9	7 ± 3.0
10.0	8 ± 0.7		
33.0	8 ± 2.6	10 ± 1.5	12 ± 2.3
100.0	11 ± 2.1	10 ± 1.8	11 ± 3.9
333.0	6 ± 0.7	10 ± 2.4	8 ± 0.7
1000.0	10 ± 3.0	9 ± 2.5	12 ± 2.3
3333.0		10 ± 1.2	6 ± 1.3
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		238 ± 4.4	479 ± 6.1
Positive Control ⁵	99 ± 3.5		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 0.9	38 ± 6.7	24 ± 3.7
10.0	22 ± 4.7		
33.0	22 ± 1.2	22 ± 1.0	26 ± 2.9
100.0	24 ± 2.9	30 ± 1.5	29 ± 2.2
333.0	23 ± 3.1	32 ± 1.9	30 ± 1.2
1000.0	21 ± 4.3	31 ± 8.5	37 ± 0.3
3333.0		28 ± 1.2	34 ± 4.3
Trial Summary	Negative	Negative	Negative
Positive Control ²		613 ± 12.5	1779 ± 45.1
Positive Control ⁶	830 ± 33.4		

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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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **