

Experiment Number: 727470

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Azodicarbonamide

CAS Number: 123-77-3

Date Report Requested: 09/12/2018

Time Report Requested: 19:41:31

NTP Study Number:

727470

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	106 ± 4.7	101 ± 5.4	108 ± 7.9	100 ± 7.3	100 ± 4.9
33.3		103 ± 13.5			
100.0	128 ± 3.9	106 ± 5.4	97 ± 13.4	76 ± 2.3	81 ± 10.5
333.3	185 ± 7.1	155 ± 3.8	96 ± 6.8	98 ± 6.6	141 ± 12.3
1000.0	370 ± 8.1	289 ± 20.0	196 ± 28.7	219 ± 6.4	351 ± 32.5
3333.3	516 ± 10.7	363 ± 23.2	504 ± 39.1	505 ± 7.4	597 ± 58.7
10000.0	561 ± 48.4		551 ± 23.9	328 ± 21.0	767 ± 27.9
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			1214 ± 55.4	317 ± 20.9	1423 ± 23.4
Positive Control ³	457 ± 14.6	439 ± 45.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	114 ± 6.7
33.3	
100.0	98 ± 2.8
333.3	117 ± 4.1
1000.0	372 ± 28.0
3333.3	563 ± 11.3
10000.0	505 ± 27.5
Trial Summary	Positive
Positive Control ²	1325 ± 39.9
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.6	12 ± 0.3	9 ± 0.3	9 ± 1.7	11 ± 1.5
33.3		16 ± 0.9			
100.0	67 ± 4.3	46 ± 5.4	13 ± 2.9	7 ± 1.0	29 ± 4.5
333.3	158 ± 7.9	75 ± 9.5	10 ± 3.1	8 ± 1.9	152 ± 30.4
1000.0	332 ± 25.5	217 ± 4.7	250 ± 23.7	156 ± 15.8	464 ± 21.8
3333.3	506 ± 29.8	387 ± 37.6	553 ± 3.8	524 ± 71.5	759 ± 23.8
10000.0	677 ± 43.6		706 ± 25.3	394 ± 23.4	826 ± 63.9
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³	385 ± 21.5	388 ± 8.0			
Positive Control ⁴			479 ± 17.8	216 ± 5.4	513 ± 5.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.3
33.3	
100.0	10 ± 2.0
333.3	41 ± 6.9
1000.0	278 ± 22.2
3333.3	517 ± 35.2
10000.0	252 ± 36.7
Trial Summary	Positive
Positive Control ³	
Positive Control ⁴	325 ± 6.2

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2	24 ± 3.4	29 ± 8.0
100.0	8 ± 1.9	20 ± 2.6	12 ± 2.5
333.3	6 ± 0.7	16 ± 1.2	9 ± 2.6
1000.0	10 ± 3.8	13 ± 2.7	14 ± 3.3
3333.3	10 ± 2.5	18 ± 1.5	10 ± 2.4
10000.0	5 ± 0.3	6 ± 1.7	4 ± 0.7
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		409 ± 15.6	363 ± 32.1
Positive Control ⁵	251 ± 29.2		

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Test Compound: Azodicarbonamide

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 3.6	58 ± 4.2	55 ± 7.1
100.0	30 ± 5.2	51 ± 1.5	49 ± 0.7
333.3	23 ± 3.3	45 ± 4.8	39 ± 1.2
1000.0	12 ± 1.2	34 ± 3.1	28 ± 1.3
3333.3	21 ± 5.2	25 ± 2.6	34 ± 2.8
10000.0	14 ± 1.5	29 ± 5.2	25 ± 3.2
Trial Summary	Negative	Negative	Negative
Positive Control ²		440 ± 27.3	1513 ± 57.8
Positive Control ⁶	681 ± 18.0		

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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

**** END OF REPORT ****