

Experiment Number: 631374

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Tetranitromethane

CAS Number: 509-14-8

Date Report Requested: 09/10/2018

Time Report Requested: 17:27:43

NTP Study Number:

631374

Study Result:

Positive

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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	124 ± 11.9	122 ± 7.9	142 ± 1.9	130 ± 3.8	130 ± 6.1
0.03	127 ± 11.9				
0.1	147 ± 4.0				
0.3	138 ± 2.7	139 ± 3.8			
1.0	164 ± 7.2	163 ± 2.7			
2.0		203 ± 6.0			
2.5		223 ± 10.7			
3.3	299 ± 3.1 ^s	255 ± 7.9 ^s		137 ± 8.2	
10.0			158 ± 9.5	138 ± 8.8	150 ± 1.8
20.0					213 ± 12.8
33.0			190 ± 4.8	203 ± 9.5	373 ± 21.2
50.0			227 ± 4.3		604 ± 7.1 ^s
75.0			387 ± 15.8		257 ± 12.5 ^s
100.0			418 ± 17.8	357 ± 17.8 ^s	
150.0			507 ± 11.3		
215.0				661 ± 27.0 ^s	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					3128 ± 44.7
Positive Control ³			1547 ± 31.0	1150 ± 88.1	
Positive Control ⁴	2202 ± 24.8	1371 ± 29.9			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	123 ± 4.8
0.03	
0.1	
0.3	
1.0	
2.0	
2.5	
3.3	113 ± 9.0
10.0	132 ± 4.4
20.0	
33.0	300 ± 13.9
50.0	
75.0	
100.0	419 ± 65.0 ^s
150.0	
215.0	Toxic
Trial Summary	Positive
Positive Control ²	2331 ± 12.0
Positive Control ³	
Positive Control ⁴	

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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	28 ± 3.6	18 ± 1.2	13 ± 2.5	11 ± 0.7	7 ± 1.5
0.03	21 ± 0.3				
0.1	27 ± 1.5				
0.3	28 ± 1.7	25 ± 0.9			
1.0	33 ± 1.5 ^s	28 ± 5.2			
2.0		48 ± 4.0			
2.5		62 ± 2.1			
3.3	73 ± 6.8 ^s	67 ± 5.0		15 ± 0.9	
10.0			16 ± 1.8	22 ± 2.3	12 ± 1.2
20.0					57 ± 7.4
33.0			42 ± 18.2	50 ± 6.6	184 ± 2.9
50.0			87 ± 8.1		299 ± 8.4
75.0			182 ± 11.6		123 ± 3.9 ^s
100.0			202 ± 21.9	191 ± 9.0 ^s	
150.0			276 ± 9.5		
215.0				200 ± 9.0 ^s	
Trial Summary	Equivocal	Positive	Positive	Positive	Positive
Positive Control ²					167 ± 2.6
Positive Control ³			85 ± 4.3	89 ± 21.1	
Positive Control ⁴	1452 ± 99.3	1012 ± 33.3			

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Test Compound: Tetranitromethane

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Date Report Requested: 09/10/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.5
0.03	
0.1	
0.3	
1.0	
2.0	
2.5	
3.3	14 ± 1.2
10.0	23 ± 3.2
20.0	
33.0	165 ± 9.8
50.0	
75.0	
100.0	Toxic
150.0	
215.0	Toxic
Trial Summary	Positive
Positive Control ²	148 ± 9.0
Positive Control ³	
Positive Control ⁴	

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Test Compound: Tetranitromethane
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Date Report Requested: 09/10/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.2	15 ± 1.2	21 ± 3.3
0.03	17 ± 0.3		
0.1	19 ± 1.2		
0.3	18 ± 2.7		
1.0	21 ± 2.6		
3.3	8 ± 0.9 ^s	16 ± 1.3	23 ± 2.0
10.0		18 ± 0.7	18 ± 3.2
33.0		20 ± 0.9	17 ± 4.0
100.0		19 ± 2.9	Toxic
215.0		11 ± 3.8 ^s	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			164 ± 6.4
Positive Control ³		144 ± 3.6	
Positive Control ⁵	278 ± 11.5		

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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	17 ± 0.7	19 ± 0.9	34 ± 1.5	36 ± 1.9	28 ± 2.3
0.03	23 ± 1.9				
0.1	19 ± 2.9				
0.3	21 ± 0.6	18 ± 2.8			
1.0	26 ± 0.7	26 ± 2.9			
2.0		32 ± 6.9			
2.5		42 ± 11.8			
3.3	78 ± 9.3 ^s	24 ± 4.9 ^s		29 ± 1.3	
10.0			30 ± 1.0	31 ± 4.7	29 ± 2.9
20.0					35 ± 5.2
33.0			36 ± 1.9	35 ± 3.3	28 ± 5.6
50.0			46 ± 1.5		51 ± 8.4
75.0			45 ± 3.5		86 ± 8.2
100.0			50 ± 3.5	60 ± 4.7	
150.0			70 ± 5.4 ^s		
215.0				Toxic	
Trial Summary	Positive	Weakly Positive	Weakly Positive	Equivocal	Positive
Positive Control ²					2581 ± 40.1
Positive Control ³			1228 ± 9.8	1115 ± 45.6	
Positive Control ⁶	1826 ± 84.5	1850 ± 22.4			

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

Test Compound: Tetranitromethane

CAS Number: 509-14-8

Date Report Requested: 09/10/2018

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 1.2
0.03	
0.1	
0.3	
1.0	
2.0	
2.5	
3.3	33 ± 3.8
10.0	30 ± 2.9
20.0	
33.0	48 ± 4.1
50.0	
75.0	
100.0	Toxic
150.0	
215.0	Toxic
Trial Summary	Equivocal
Positive Control ²	1975 ± 22.1
Positive Control ³	
Positive Control ⁶	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****