

Experiment Number: 992990

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Carbon tetrachloride

CAS Number: 56-23-5

Date Report Requested: 09/18/2018

Time Report Requested: 08:06:45

NTP Study Number:

992990

Study Result:

Negative

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Date Report Requested: 09/18/2018

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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	82 ± 2.1	85 ± 5.1	90 ± 3.7	87 ± 5.5	92 ± 2.0
10.0		92 ± 3.2	94 ± 3.8		87 ± 5.7
33.0	85 ± 4.6	89 ± 2.2	97 ± 3.2	91 ± 3.5	95 ± 3.9
100.0	75 ± 1.2	92 ± 14.4	96 ± 6.0	80 ± 7.2	86 ± 6.1
333.0	81 ± 7.8	87 ± 3.4	95 ± 1.3	81 ± 1.8	97 ± 0.6
1000.0	52 ± 6.1 ^s	81 ± 1.7 ^s	80 ± 2.5 ^s	70 ± 7.1 ^s	79 ± 10.4 ^s
3333.0	19 ± 3.7 ^s			53 ± 6.2 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					305 ± 8.1
Positive Control ³	418 ± 17.2	381 ± 32.8			
Positive Control ⁴			425 ± 15.0		
Positive Control ⁵					
Positive Control ⁶				361 ± 10.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	88 ± 7.6
10.0	
33.0	68 ± 2.6
100.0	84 ± 2.9
333.0	72 ± 0.7
1000.0	67 ± 3.8 ^s
3333.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	599 ± 5.3
Positive Control ⁶	

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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	13 ± 1.7	21 ± 2.1	8 ± 1.5	10 ± 1.9	8 ± 0.9
10.0	9 ± 0.0	22 ± 2.6	11 ± 1.5	9 ± 1.3	8 ± 1.5
33.0	12 ± 2.1	20 ± 2.3	11 ± 2.5	9 ± 1.9	7 ± 0.7
100.0	13 ± 2.5	25 ± 3.8	8 ± 0.7	8 ± 2.0	8 ± 0.3
333.0	7 ± 0.7	24 ± 5.2	15 ± 4.4	8 ± 2.2	7 ± 0.9
1000.0	3 ± 1.3 ^s	17 ± 2.4 ^s	10 ± 0.6 ^s	7 ± 0.9 ^s	6 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					28 ± 3.8
Positive Control ³	150 ± 7.8	258 ± 4.2			
Positive Control ⁵					
Positive Control ⁶			158 ± 4.3	82 ± 2.8	

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Date Report Requested: 09/18/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	5 ± 1.2
10.0	7 ± 0.3
33.0	7 ± 0.7
100.0	8 ± 0.3
333.0	7 ± 1.2
1000.0	6 ± 0.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	107 ± 1.2
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.2	21 ± 3.2	21 ± 0.7	12 ± 3.1	19 ± 3.2
10.0	10 ± 1.5	22 ± 3.9	29 ± 0.0	15 ± 2.0	23 ± 0.9
33.0	8 ± 0.7	17 ± 2.6	25 ± 1.8	11 ± 2.0	21 ± 4.0
100.0	8 ± 0.7	28 ± 2.4	28 ± 2.6	14 ± 2.0	24 ± 1.9
333.0	7 ± 1.8	21 ± 1.7	23 ± 3.8	11 ± 0.6	28 ± 4.0
1000.0	5 ± 1.3 ^s	18 ± 4.3 ^s	26 ± 2.3 ^s	8 ± 0.7 ^s	19 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					221 ± 16.7
Positive Control ⁶			119 ± 6.3		
Positive Control ⁷				45 ± 5.8	
Positive Control ⁸	23 ± 1.8	74 ± 1.0			

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Test Compound: Carbon tetrachloride

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Date Report Requested: 09/18/2018

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.5
10.0	10 ± 1.7
33.0	8 ± 0.9
100.0	9 ± 2.7
333.0	14 ± 0.9
1000.0	5 ± 2.4 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	194 ± 13.7
Positive Control ⁸	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	65 ± 4.8	96 ± 7.4	139 ± 7.5	132 ± 14.7	103 ± 3.5
10.0	69 ± 2.0	103 ± 6.5	121 ± 6.6	125 ± 3.0	107 ± 3.7
33.0	85 ± 5.9	93 ± 4.5	119 ± 10.5	105 ± 8.8	103 ± 5.0
100.0	94 ± 2.9	81 ± 2.2	125 ± 12.7	159 ± 20.7	112 ± 6.4
333.0	87 ± 3.8	87 ± 10.3	115 ± 7.1	134 ± 2.9	107 ± 9.6
1000.0	29 ± 10.4 ^s	89 ± 6.2 ^s	108 ± 4.8 ^s	96 ± 4.7 ^s	96 ± 12.5 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁴					1008 ± 16.7
Positive Control ⁶			774 ± 14.7		
Positive Control ⁷				275 ± 32.5	
Positive Control ⁹	133 ± 4.7	1124 ± 100.3			

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Date Report Requested: 09/18/2018
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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	118 ± 8.8
10.0	123 ± 2.3
33.0	125 ± 4.1
100.0	136 ± 11.2
333.0	120 ± 7.7
1000.0	90 ± 4.4 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	945 ± 34.9
Positive Control ⁹	

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Test Compound: Carbon tetrachloride

CAS Number: 56-23-5

Date Report Requested: 09/18/2018

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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	14 ± 2.1	12 ± 2.0	21 ± 5.9	18 ± 0.9	21 ± 3.0
10.0		16 ± 2.0	25 ± 1.2		31 ± 1.5
33.0	14 ± 3.5	15 ± 0.6	24 ± 3.5	21 ± 1.2	27 ± 1.7
100.0	16 ± 1.5	15 ± 2.7	21 ± 2.3	21 ± 4.0	23 ± 3.8
333.0	10 ± 1.2	17 ± 1.0	30 ± 4.7	24 ± 3.8	33 ± 1.9
1000.0	8 ± 0.9 ^s	12 ± 2.3 ^s	20 ± 3.8 ^s	22 ± 0.6 ^s	26 ± 0.9 ^s
3333.0	7 ± 1.9 ^s			7 ± 3.8 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					79 ± 5.0
Positive Control ²			48 ± 7.0		
Positive Control ⁵				276 ± 5.7	
Positive Control ¹¹	103 ± 6.4	123 ± 3.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 3.1
10.0	
33.0	23 ± 2.7
100.0	23 ± 3.0
333.0	28 ± 1.8
1000.0	26 ± 4.9 ^s
3333.0	21 ± 8.7 ^s
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	58 ± 0.3
Positive Control ⁵	
Positive Control ¹¹	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****