

Experiment Number: 939205

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Dimethyl sulfoxide**

CAS Number: **67-68-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **12:19:22**

NTP Study Number:

939205

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Dimethyl sulfoxide

CAS Number: 67-68-5

Date Report Requested: 09/17/2018

Time Report Requested: 12:19:22

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	134 ± 4.4	159 ± 6.4	163 ± 7.5	125 ± 13.4	175 ± 1.9
100.0	126 ± 8.4	149 ± 5.8	139 ± 6.8	127 ± 6.2	137 ± 9.8
333.0	139 ± 2.6	144 ± 8.2	159 ± 3.9	130 ± 7.8	166 ± 5.5
1000.0	128 ± 5.8	140 ± 3.0	160 ± 9.8	135 ± 14.8	152 ± 14.2
3333.0	121 ± 2.8	159 ± 4.2	140 ± 17.9	152 ± 6.1	167 ± 4.0
10000.0	132 ± 2.8	152 ± 4.6	144 ± 24.1	134 ± 8.0	151 ± 13.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					712 ± 46.0
Positive Control ³			566 ± 12.1		
Positive Control ⁴	370 ± 18.4	384 ± 57.2			
Positive Control ⁵				383 ± 13.7	

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Date Report Requested: 09/17/2018

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	128 ± 4.3
100.0	123 ± 8.1
333.0	139 ± 6.4
1000.0	121 ± 11.2
3333.0	135 ± 11.2
10000.0	128 ± 4.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	558 ± 32.7
Positive Control ⁴	
Positive Control ⁵	

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Date Report Requested: 09/17/2018

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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	33 ± 3.3	22 ± 3.5	12 ± 3.8	15 ± 0.6	11 ± 1.7
100.0	27 ± 2.0	21 ± 4.3	11 ± 4.3	12 ± 1.2	12 ± 3.2
333.0	30 ± 1.5	26 ± 3.2	10 ± 1.2	12 ± 0.0	12 ± 3.2
1000.0	28 ± 4.4	15 ± 1.2	8 ± 1.5	14 ± 2.3	8 ± 2.0
3333.0	21 ± 2.3	15 ± 2.0	9 ± 1.8	14 ± 2.2	10 ± 0.7
10000.0	26 ± 2.6	20 ± 3.5	10 ± 0.7	11 ± 2.1	9 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					154 ± 28.2
Positive Control ⁴	448 ± 9.0	232 ± 10.2			
Positive Control ⁵			153 ± 8.9		
Positive Control ⁶				195 ± 12.9	

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Test Compound: Dimethyl sulfoxide

CAS Number: 67-68-5

Date Report Requested: 09/17/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.3
100.0	15 ± 1.8
333.0	13 ± 2.2
1000.0	12 ± 1.2
3333.0	12 ± 1.2
10000.0	14 ± 1.8
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	569 ± 15.6
Positive Control ⁶	

Experiment Number: 939205

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

Test Compound: Dimethyl sulfoxide

CAS Number: 67-68-5

Date Report Requested: 09/17/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.5	14 ± 0.6	10 ± 1.7
100.0	12 ± 1.0	15 ± 2.3	14 ± 1.2
333.0	12 ± 2.8	13 ± 2.6	11 ± 0.3
1000.0	9 ± 1.9	10 ± 1.2	9 ± 1.5
3333.0	12 ± 0.9	11 ± 1.9	13 ± 0.9
10000.0	14 ± 2.3	12 ± 2.1	10 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control ³			46 ± 8.9
Positive Control ⁵		55 ± 4.6	
Positive Control ⁷	310 ± 30.5		

Experiment Number: 939205

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Test Compound: Dimethyl sulfoxide

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Date Report Requested: 09/17/2018

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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	153 ± 6.4	178 ± 4.8	203 ± 2.6	222 ± 1.5	204 ± 1.9
100.0	162 ± 5.8	182 ± 7.6	212 ± 5.5	214 ± 4.4	194 ± 5.5
333.0	165 ± 6.8	197 ± 6.7	216 ± 2.7	215 ± 10.1	218 ± 2.1
1000.0	196 ± 10.1	195 ± 9.4	229 ± 7.9	198 ± 4.5	199 ± 7.8
3333.0	196 ± 4.3	198 ± 11.3	222 ± 7.5	234 ± 7.5	215 ± 2.5
10000.0	182 ± 7.9	207 ± 9.9	229 ± 3.2	217 ± 8.8	212 ± 6.2
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					556 ± 35.6
Positive Control ³			376 ± 27.0		
Positive Control ⁵				460 ± 34.5	
Positive Control ⁷	635 ± 28.5	613 ± 34.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	198 ± 8.2
100.0	208 ± 12.7
333.0	212 ± 6.1
1000.0	212 ± 3.2
3333.0	211 ± 4.8
10000.0	193 ± 2.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	516 ± 8.5
Positive Control ⁵	
Positive Control ⁷	

Experiment Number: 939205

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

Test Compound: Dimethyl sulfoxide

CAS Number: 67-68-5

Date Report Requested: 09/17/2018

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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	16 ± 3.2	16 ± 2.3	39 ± 3.2	39 ± 4.9	28 ± 2.0
100.0	16 ± 1.2	17 ± 1.3	31 ± 3.6	31 ± 3.3	25 ± 2.3
333.0	18 ± 3.8	18 ± 3.0	34 ± 5.6	36 ± 2.9	30 ± 4.0
1000.0	19 ± 3.3	13 ± 3.2	29 ± 5.2	33 ± 7.7	34 ± 2.6
3333.0	15 ± 1.3	21 ± 2.7	23 ± 3.6	27 ± 0.7	33 ± 1.5
10000.0	17 ± 2.1	17 ± 4.2	35 ± 4.0	31 ± 4.2	26 ± 4.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					771 ± 3.7
Positive Control ³			534 ± 4.0	122 ± 5.8	
Positive Control ⁸	540 ± 11.6	745 ± 51.8			

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Test Compound: Dimethyl sulfoxide

CAS Number: 67-68-5

Date Report Requested: 09/17/2018

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	34 ± 3.6
100.0	28 ± 1.0
333.0	36 ± 1.5
1000.0	33 ± 1.9
3333.0	33 ± 2.5
10000.0	28 ± 1.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	438 ± 12.6
Positive Control ⁸	

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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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****