

Experiment Number: 761375

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

G06: Ames Summary Data

Test Compound: **Formaldehyde**

CAS Number: **50-00-0**

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

Time Report Requested: **15:57:44**

NTP Study Number:

761375

Study Result:

Weakly Positive

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Mutagenicity**G06: Ames Summary Data**

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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	149 ± 5.7	136 ± 7.5	191 ± 12.4	153 ± 15.5	196 ± 19.1
1.0		136 ± 9.4		178 ± 2.1	
3.3	173 ± 7.1	134 ± 12.9	178 ± 1.7	181 ± 25.6	173 ± 1.8
10.0	141 ± 6.2	127 ± 8.4	184 ± 3.3	168 ± 19.0	177 ± 3.7
33.0	170 ± 11.7	143 ± 10.5	247 ± 6.2	196 ± 5.9	240 ± 3.8
100.0	195 ± 1.9	175 ± 14.5	171 ± 2.5	246 ± 17.6	204 ± 1.7
333.0	1 ± 1.3		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²			1294 ± 31.3	1535 ± 16.6	1967 ± 16.3
Positive Control ³	1082 ± 43.2	518 ± 28.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	152 ± 9.5
1.0	175 ± 8.0
3.3	168 ± 21.6
10.0	169 ± 17.0
33.0	193 ± 12.7
100.0	260 ± 16.8
333.0	
Trial Summary	Equivocal
Positive Control ²	1502 ± 16.7
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	8 ± 0.9	5 ± 1.8	10 ± 2.0	8 ± 1.9	8 ± 1.2
1.0		7 ± 0.7		5 ± 1.5	
3.3	8 ± 2.3	7 ± 2.0	13 ± 0.6	7 ± 2.0	17 ± 0.7
10.0	7 ± 1.2	5 ± 0.9	9 ± 1.8	6 ± 1.5	8 ± 1.0
33.0	9 ± 1.2	5 ± 1.2	9 ± 0.3	6 ± 0.6	9 ± 0.7
100.0	13 ± 0.3	5 ± 3.0	6 ± 0.7	Toxic	10 ± 0.7
333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			128 ± 13.5	49 ± 4.7	108 ± 3.6
Positive Control ³	779 ± 10.1	177 ± 28.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.8
1.0	9 ± 0.7
3.3	11 ± 2.9
10.0	7 ± 0.3
33.0	9 ± 3.8
100.0	Toxic
333.0	
Trial Summary	Negative
Positive Control ²	38 ± 2.1
Positive Control ³	

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Test Compound: Formaldehyde

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Date Report Requested: 09/17/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 0.3	3 ± 0.9	5 ± 0.9	4 ± 0.7	8 ± 1.8
1.0		4 ± 1.3		5 ± 1.9	
3.3	3 ± 0.3	4 ± 1.2	11 ± 0.9	7 ± 1.2	4 ± 0.3
10.0	2 ± 0.6	2 ± 0.3	5 ± 1.5	5 ± 0.7	7 ± 0.7
33.0	4 ± 0.3	2 ± 1.2	5 ± 0.3	7 ± 1.8	6 ± 0.0
100.0	4 ± 1.5	3 ± 1.8	2 ± 0.3	2 ± 1.5	1 ± 0.0
333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			71 ± 3.2	78 ± 13.6	129 ± 37.4
Positive Control ⁴	319 ± 121.4	2414 ± 42.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.9
1.0	5 ± 1.5
3.3	5 ± 1.9
10.0	5 ± 2.0
33.0	5 ± 1.3
100.0	1 ± 0.3
333.0	
Trial Summary	Negative
Positive Control ²	112 ± 4.8
Positive Control ⁴	

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Test Compound: Formaldehyde

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	32 ± 3.2	19 ± 5.5	34 ± 2.3	32 ± 1.2	34 ± 2.1
1.0		13 ± 2.3		29 ± 4.4	
3.3	29 ± 0.9	19 ± 3.8	52 ± 1.9	29 ± 10.3	39 ± 1.9
10.0	23 ± 2.9	15 ± 0.9	29 ± 1.0	26 ± 3.2	34 ± 2.2
33.0	26 ± 3.2	17 ± 0.9	64 ± 3.7	38 ± 11.2	37 ± 0.7
100.0	4 ± 1.5	12 ± 5.0	12 ± 0.9	23 ± 7.9	12 ± 3.2
333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			826 ± 14.2	1420 ± 20.7	1053 ± 19.7
Positive Control ⁵	748 ± 33.0	278 ± 58.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	27 ± 4.8
1.0	18 ± 6.0
3.3	22 ± 4.7
10.0	20 ± 5.6
33.0	26 ± 2.1
100.0	26 ± 6.7
333.0	
Trial Summary	Negative
Positive Control ²	1024 ± 27.8
Positive Control ⁵	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****