

Experiment Number: A30245

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

G06: Ames Summary Data

Test Compound: **Methylal**

CAS Number: **109-87-5**

Date Report Requested: **09/16/2018**

Time Report Requested: **15:11:40**

NTP Study Number:

A30245

Study Result:

Negative

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Test Compound: Methylal
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Date Report Requested: 09/16/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	148 ± 2.9	128 ± 1.5	137 ± 7.4	133 ± 8.4	149 ± 6.1
100.0	141 ± 7.4		133 ± 3.3	117 ± 6.4	150 ± 3.8
333.0	147 ± 5.9		127 ± 6.4	125 ± 8.4	143 ± 3.7
1000.0	162 ± 1.5	130 ± 1.9	133 ± 16.7	118 ± 10.0	132 ± 5.3
1666.0		121 ± 2.0			
3333.0	171 ± 7.0	126 ± 7.9	127 ± 5.6	115 ± 3.0	132 ± 3.8
6666.0		122 ± 5.9			
10000.0	181 ± 11.8	122 ± 4.1	114 ± 4.0	121 ± 3.8	137 ± 13.7
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				708 ± 10.7	
Positive Control ⁴	928 ± 7.2	937 ± 18.8	893 ± 10.7		
Positive Control ⁵					657 ± 20.5

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	124 ± 8.1	132 ± 3.0
100.0	130 ± 0.7	145 ± 5.5
333.0	136 ± 4.7	145 ± 14.3
1000.0	123 ± 6.7	146 ± 10.0
1666.0		
3333.0	118 ± 6.7	140 ± 6.7
6666.0		
10000.0	118 ± 6.1	139 ± 10.0
Trial Summary	Negative	Negative
Positive Control ²	725 ± 22.0	
Positive Control ³		722 ± 12.4
Positive Control ⁴		
Positive Control ⁵		

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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	8 ± 2.3	11 ± 0.6	15 ± 1.5	10 ± 2.2	11 ± 2.9
100.0	9 ± 0.0	10 ± 1.0	12 ± 1.5	11 ± 1.2	9 ± 0.3
333.0	8 ± 1.5	12 ± 1.7	12 ± 0.3	10 ± 1.2	10 ± 2.0
1000.0	12 ± 1.2	9 ± 1.7	9 ± 1.0	10 ± 2.0	10 ± 1.7
3333.0	7 ± 0.3	8 ± 0.9	9 ± 0.7	12 ± 1.2	12 ± 1.0
10000.0	10 ± 0.7	9 ± 0.7	9 ± 0.6	12 ± 0.7	11 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					133 ± 4.7
Positive Control ⁴	911 ± 6.1	932 ± 16.6			
Positive Control ⁵			111 ± 6.5		
Positive Control ⁶				120 ± 8.4	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.9
100.0	9 ± 1.8
333.0	8 ± 2.2
1000.0	13 ± 3.2
3333.0	6 ± 0.7
10000.0	11 ± 0.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	116 ± 3.6
Positive Control ⁶	

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Date Report Requested: 09/16/2018

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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	157 ± 9.6	146 ± 9.1	161 ± 17.1	186 ± 4.6	162 ± 16.8
100.0	152 ± 2.7	162 ± 2.6	165 ± 5.0	197 ± 1.5	155 ± 3.3
333.0	149 ± 10.7	157 ± 14.6	148 ± 14.4	186 ± 4.4	170 ± 16.3
1000.0	167 ± 13.2	154 ± 13.4	161 ± 12.8	200 ± 10.3	165 ± 8.8
3333.0	166 ± 9.2	166 ± 8.8	184 ± 12.4	199 ± 6.7	141 ± 4.5
10000.0	154 ± 7.9	158 ± 19.0	165 ± 5.5	185 ± 5.2	154 ± 21.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					670 ± 16.9
Positive Control ³			644 ± 24.8		
Positive Control ⁵				578 ± 23.4	
Positive Control ⁷	562 ± 7.3	582 ± 11.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	206 ± 6.1
100.0	186 ± 10.9
333.0	198 ± 6.0
1000.0	197 ± 8.5
3333.0	203 ± 12.2
10000.0	186 ± 4.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	673 ± 11.4
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	23 ± 2.1	24 ± 4.1	23 ± 3.6	22 ± 2.9	19 ± 3.3
100.0	18 ± 0.9		23 ± 3.1	23 ± 2.7	23 ± 2.9
333.0	19 ± 2.5		17 ± 2.2	19 ± 3.2	24 ± 0.9
1000.0	25 ± 1.9	24 ± 3.7	15 ± 2.6	18 ± 1.8	22 ± 0.6
1666.0		19 ± 2.3			
3333.0	28 ± 3.0	18 ± 2.4	21 ± 4.0	20 ± 2.6	22 ± 3.8
6666.0		21 ± 3.2			
10000.0	38 ± 3.5	25 ± 1.0	21 ± 1.7	24 ± 2.2	20 ± 2.4
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				481 ± 9.3	
Positive Control ⁸	355 ± 17.6	362 ± 7.7	497 ± 38.9		
Positive Control ⁵					536 ± 45.1

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	25 ± 3.8	24 ± 3.2
100.0	25 ± 3.8	17 ± 2.0
333.0	18 ± 2.7	19 ± 3.5
1000.0	17 ± 4.2	27 ± 0.3
1666.0		
3333.0	18 ± 3.5	23 ± 0.7
6666.0		
10000.0	21 ± 2.2	26 ± 2.9
Trial Summary	Negative	Negative
Positive Control ²	538 ± 13.3	
Positive Control ³		545 ± 16.9
Positive Control ⁸		
Positive Control ⁵		

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	180 ± 3.5	188 ± 11.3	241 ± 11.8	249 ± 8.1	237 ± 24.0
100.0	181 ± 13.5	196 ± 9.0	214 ± 2.9	226 ± 11.2	263 ± 24.4
333.0	176 ± 4.9	165 ± 9.1	273 ± 8.4	241 ± 12.0	283 ± 8.4
1000.0	165 ± 4.7	178 ± 11.5	247 ± 5.5	214 ± 2.7	257 ± 10.5
3333.0	170 ± 6.1	205 ± 5.0	258 ± 23.1	254 ± 15.4	269 ± 15.6
10000.0	166 ± 18.9	205 ± 4.3	239 ± 24.3	238 ± 10.2	224 ± 8.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	758 ± 17.0	788 ± 31.0			
Positive Control ⁶			946 ± 21.3	837 ± 15.9	961 ± 19.1

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Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	258 ± 14.0
100.0	239 ± 16.8
333.0	270 ± 15.1
1000.0	261 ± 21.4
3333.0	224 ± 11.4
10000.0	257 ± 21.9
Trial Summary	Negative
Positive Control ⁹	
Positive Control ⁶	885 ± 23.1

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	234 ± 19.5	263 ± 14.0	364 ± 18.3	368 ± 16.3	364 ± 22.4
100.0	215 ± 2.7	290 ± 5.8	369 ± 20.7	396 ± 8.4	375 ± 24.8
333.0	248 ± 10.5	273 ± 13.0	373 ± 22.4	361 ± 17.2	392 ± 9.1
1000.0	235 ± 14.9	258 ± 10.3	364 ± 11.3	338 ± 15.6	348 ± 19.1
3333.0	228 ± 8.2	253 ± 8.1	320 ± 4.9	371 ± 29.4	353 ± 17.0
10000.0	222 ± 7.5	261 ± 11.7	340 ± 24.0	376 ± 9.0	378 ± 11.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶			1107 ± 52.0	1023 ± 26.0	1216 ± 19.5
Positive Control ¹⁰	1116 ± 49.5	933 ± 21.2			

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	353 ± 25.5
100.0	364 ± 15.7
333.0	308 ± 57.2
1000.0	323 ± 82.1
3333.0	262 ± 66.6
10000.0	358 ± 26.1
Trial Summary	Negative
Positive Control ⁶	1042 ± 30.7
Positive Control ¹⁰	

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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: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

9: 0.5 ug/Plate Mitomycin-C

10: 250.0 ug/Plate Methyl Methane Sulfonate

**** END OF REPORT ****