

Experiment Number: 297396

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

G06: Ames Summary Data

Test Compound: **Methane**

CAS Number: **74-82-8**

Date Report Requested: **09/11/2018**

Time Report Requested: **21:37:00**

NTP Study Number:

297396

Study Result:

Negative

Experiment Number: 297396

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methane

CAS Number: 74-82-8

Date Report Requested: 09/11/2018

Time Report Requested: 21:37:00

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	107 ± 8.0	225 ± 6.1	136 ± 3.1	146 ± 3.3	160 ± 4.0
0.001	132 ± 9.6	221 ± 14.0	132 ± 8.7	144 ± 2.2	146 ± 10.2
0.002	115 ± 13.7	204 ± 6.3	116 ± 4.6	120 ± 5.8	159 ± 11.0
0.007	107 ± 8.5	Toxic	91 ± 2.1	147 ± 6.2	142 ± 8.5
0.013	108 ± 11.2	194 ± 6.0	92 ± 8.2	162 ± 12.0	146 ± 2.4
0.027	100 ± 3.1	160 ± 5.7	85 ± 1.9	135 ± 2.4	123 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	246 ± 14.0	798 ± 19.7	677 ± 23.3		
Positive Control ⁴					
Positive Control ⁵					
Positive Control ⁶				1643 ± 7.3	743 ± 34.6

Experiment Number: 297396
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Methane
CAS Number: 74-82-8

Date Report Requested: 09/11/2018
Time Report Requested: 21:37:00

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	221 ± 11.5	140 ± 8.5
0.001	217 ± 2.0	156 ± 5.5
0.002	222 ± 9.0	159 ± 14.4
0.007	198 ± 11.5	128 ± 12.9
0.013	193 ± 3.2	100 ± 1.5
0.027	178 ± 13.9	106 ± 8.7
Trial Summary	Negative	Negative
Positive Control ²	1244 ± 27.8	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		495 ± 36.4
Positive Control ⁶		

Experiment Number: 297396

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methane

CAS Number: 74-82-8

Date Report Requested: 09/11/2018

Time Report Requested: 21:37:00

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.0	11 ± 2.9	18 ± 2.6	13 ± 2.9	16 ± 2.1
0.001	13 ± 2.1	18 ± 1.7	13 ± 1.5	13 ± 0.9	17 ± 2.4
0.002	11 ± 0.7	19 ± 2.9	15 ± 1.2	15 ± 1.5	12 ± 0.7
0.007	8 ± 2.2	12 ± 2.0	14 ± 1.2	13 ± 4.2	14 ± 1.5
0.013	9 ± 2.2	17 ± 4.3	17 ± 1.2	12 ± 0.9	20 ± 1.2
0.027	12 ± 0.9	14 ± 1.5	16 ± 0.9	13 ± 2.6	19 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					186 ± 2.3
Positive Control ³	437 ± 9.5	566 ± 11.5			
Positive Control ⁵					
Positive Control ⁶			41 ± 3.0	121 ± 10.3	

Experiment Number: 297396
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Methane
CAS Number: 74-82-8

Date Report Requested: 09/11/2018
Time Report Requested: 21:37:00

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.2
0.001	13 ± 0.6
0.002	13 ± 2.6
0.007	14 ± 0.6
0.013	14 ± 1.2
0.027	18 ± 2.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	112 ± 12.0
Positive Control ⁶	

Experiment Number: 297396

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methane

CAS Number: 74-82-8

Date Report Requested: 09/11/2018

Time Report Requested: 21:37:00

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	117 ± 4.8	149 ± 6.1	219 ± 11.0	152 ± 8.3	177 ± 5.2
0.0				184 ± 8.5	154 ± 12.1
152 ± 6.1		0.001	128 ± 4.3	142 ± 6.4	219 ± 1.2
162 ± 10.5	175 ± 10.0	0.002	132 ± 5.2	141 ± 13.3	245 ± 3.5
139 ± 6.4	178 ± 18.9	0.007	125 ± 3.9	129 ± 4.6	207 ± 8.5
133 ± 16.1	179 ± 7.4	0.013	114 ± 5.4	152 ± 12.8	209 ± 10.4
	158 ± 9.3	0.027	105 ± 5.5	129 ± 5.7	215 ± 10.9
	129 ± 11.0				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			563 ± 12.1	457 ± 12.3	728 ± 15.0
Positive Control ⁷	309 ± 8.4	369 ± 22.8			

Experiment Number: 297396

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methane

CAS Number: 74-82-8

Date Report Requested: 09/11/2018

Time Report Requested: 21:37:00

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	237 ± 9.8	133 ± 4.7	169 ± 5.2
0.0			164 ± 5.3
152 ± 6.1	177 ± 14.5	163 ± 11.4	270 ± 7.6
162 ± 10.5	144 ± 4.4	162 ± 9.6	257 ± 3.5
139 ± 6.4	178 ± 5.0	187 ± 2.4	204 ± 12.5
133 ± 16.1		155 ± 1.2	215 ± 2.5
		132 ± 2.0	221 ± 10.3
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	1787 ± 26.4		
Positive Control ⁶		597 ± 33.0	1010 ± 69.2
Positive Control ⁷			

Experiment Number: 297396

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methane

CAS Number: 74-82-8

Date Report Requested: 09/11/2018

Time Report Requested: 21:37:00

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.2	29 ± 3.1	32 ± 4.4	18 ± 2.4	32 ± 2.1
0.001	10 ± 1.0	27 ± 3.0	34 ± 2.1	19 ± 4.6	35 ± 1.7
0.002	11 ± 0.9	29 ± 1.5	30 ± 3.5	14 ± 0.9	27 ± 2.8
0.007	13 ± 2.6	24 ± 3.4	32 ± 1.8	17 ± 4.4	26 ± 2.0
0.013	10 ± 1.3	27 ± 0.9	35 ± 2.3	16 ± 2.0	28 ± 2.7
0.027	8 ± 0.6	27 ± 0.7	38 ± 3.6	14 ± 0.7	33 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			222 ± 30.2		326 ± 12.1
Positive Control ⁵				201 ± 20.5	
Positive Control ⁸	155 ± 16.6	244 ± 9.8			

Experiment Number: 297396
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Methane
CAS Number: 74-82-8

Date Report Requested: 09/11/2018
Time Report Requested: 21:37:00

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 0.6
0.001	17 ± 1.9
0.002	20 ± 3.5
0.007	19 ± 2.9
0.013	14 ± 2.4
0.027	12 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	159 ± 10.8
Positive Control ⁸	

Experiment Number: 297396

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

G06: Ames Summary Data

Test Compound: **Methane**

CAS Number: **74-82-8**

Date Report Requested: **09/11/2018**

Time Report Requested: **21:37:00**

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: Air

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: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****