

Experiment Number: A28640

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

G06: Ames Summary Data

Test Compound: **Acetylacetone**

CAS Number: **123-54-6**

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

Time Report Requested: **14:38:10**

NTP Study Number:

A28640

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	98 ± 5.3	99 ± 6.3	57 ± 1.2	63 ± 3.5
1000.0	72 ± 5.0	74 ± 3.7	63 ± 8.6	56 ± 4.1
2500.0	69 ± 2.9	81 ± 5.1	66 ± 4.3	55 ± 12.7
5000.0	90 ± 7.2	71 ± 5.3	77 ± 4.0	48 ± 3.8
7500.0	78 ± 0.7	26 ± 1.3	73 ± 4.1	40 ± 2.3
10000.0	82 ± 6.7	25 ± 1.7	83 ± 2.7	43 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	556 ± 20.9	274 ± 28.2		
Positive Control ³			936 ± 167.2	498 ± 26.6

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	21 ± 1.8	26 ± 4.0	23 ± 2.9	42 ± 5.7
1000.0	17 ± 1.7	23 ± 2.3	24 ± 4.5	28 ± 3.4
2500.0	13 ± 0.9	26 ± 2.6	21 ± 6.1	23 ± 4.1
5000.0	20 ± 1.2	18 ± 1.0	33 ± 0.7	32 ± 4.3
7500.0	14 ± 0.9	14 ± 2.7	24 ± 1.2	22 ± 2.6
10000.0	22 ± 2.0	19 ± 1.5	26 ± 5.9	24 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³			1102 ± 30.7	544 ± 35.1
Positive Control ⁴	431 ± 19.3	432 ± 26.6		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	150 ± 8.1	160 ± 14.8	190 ± 10.5	219 ± 10.1
1000.0	169 ± 6.1	193 ± 4.0	203 ± 8.4	239 ± 21.9
2500.0	185 ± 9.3	163 ± 4.3	198 ± 6.1	256 ± 22.4
5000.0	185 ± 2.9	127 ± 9.9	192 ± 5.8	228 ± 6.7
7500.0	182 ± 5.6	116 ± 0.6	174 ± 20.4	191 ± 10.9
10000.0	176 ± 22.1	64 ± 5.3	197 ± 6.2	158 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁵			906 ± 28.7	824 ± 46.7
Positive Control ⁶	1734 ± 46.3	1568 ± 66.3		

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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: 1.0 ug/Plate Sodium Azide
- 3: 2.5 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate 2-Nitrofluorene
- 5: 20.0 ug/Plate 2-Aminoanthracene
- 6: 4000.0 ug/Plate Methyl Methane Sulfonate

** END OF REPORT **