

Experiment Number: 488843

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

G06: Ames Summary Data

Test Compound: **Methyl 2-cyanoacrylate**

CAS Number: 137-05-3

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

Time Report Requested: **22:48:44**

NTP Study Number:

488843

Study Result:

Positive

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Test Compound: Methyl 2-cyanoacrylate
CAS Number: 137-05-3

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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	121 ± 6.1	115 ± 6.4	101 ± 8.2	118 ± 0.9	116 ± 9.0
3.0	127 ± 15.3	125 ± 6.7			
10.0	137 ± 5.0	149 ± 6.2			
33.0	169 ± 8.1	201 ± 4.3	131 ± 10.2		115 ± 3.9
100.0	182 ± 6.0	237 ± 20.5	124 ± 6.4	162 ± 6.1	154 ± 5.6
333.0	204 ± 20.0	235 ± 26.3	164 ± 16.8	217 ± 12.5	172 ± 9.6
666.0				276 ± 3.3	
1000.0			239 ± 5.6	299 ± 12.5	181 ± 7.9
1666.0			290 ± 9.5	304 ± 18.2	222 ± 6.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			372 ± 34.0	976 ± 80.9	1419 ± 37.9
Positive Control ³	481 ± 24.7	406 ± 2.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	128 ± 6.2
3.0	
10.0	
33.0	130 ± 7.1
100.0	165 ± 9.5
333.0	221 ± 3.3
666.0	
1000.0	281 ± 18.8
1666.0	280 ± 10.3
Trial Summary	Positive
Positive Control ²	2065 ± 32.9
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 4.6	24 ± 3.4	9 ± 1.8	7 ± 1.2
1.0		26 ± 3.6		
3.0		25 ± 3.2		
10.0		20 ± 3.0		
33.0	16 ± 2.2	23 ± 2.2	7 ± 0.9	10 ± 1.2
100.0	15 ± 0.6	20 ± 3.8	13 ± 3.3	6 ± 1.8
333.0	2 ± 1.3 ^s		6 ± 0.0	10 ± 2.2
1000.0	Toxic		3 ± 1.0	3 ± 0.3
1666.0	Toxic		1 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³	358 ± 42.7	511 ± 19.2		
Positive Control ⁴			157 ± 14.1	496 ± 4.9

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 0.7	8 ± 1.2	5 ± 1.8	6 ± 1.8
1.0		7 ± 0.9		
3.0		4 ± 0.3		
10.0		6 ± 1.2		
33.0	4 ± 1.2	7 ± 0.7	9 ± 0.9	8 ± 2.0
100.0	4 ± 1.5	4 ± 0.3	6 ± 1.5	6 ± 1.7
333.0	Toxic		7 ± 0.9	5 ± 0.3
1000.0	Toxic		3 ± 0.3	3 ± 0.6
1666.0	Toxic		1 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴			152 ± 16.4	320 ± 28.6
Positive Control ⁵	177 ± 9.3	205 ± 4.1		

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Test Compound: Methyl 2-cyanoacrylate

CAS Number: 137-05-3

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.5	18 ± 3.5	26 ± 3.7	26 ± 2.9
1.0		15 ± 1.2		
3.0		17 ± 3.9		
10.0		17 ± 1.9		
33.0	19 ± 2.6	15 ± 2.0	36 ± 2.0	27 ± 1.2
100.0	9 ± 1.9	21 ± 2.7	25 ± 0.3	30 ± 0.9
333.0	Toxic		27 ± 0.7	25 ± 2.2
1000.0	Toxic		5 ± 1.7	5 ± 0.9
1666.0	Toxic		0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²			342 ± 1.0	1244 ± 65.3
Positive Control ⁶	510 ± 4.0	410 ± 6.8		

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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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****