

Experiment Number: 153993

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

G06: Ames Summary Data

Test Compound: **2-Aminoanthracene**

CAS Number: **613-13-8**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:25:22**

NTP Study Number:

153993

Study Result:

Positive

Experiment Number: 153993

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Test Compound: 2-Aminoanthracene

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Date Report Requested: 09/12/2018

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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	93 ± 6.9	100 ± 2.7	122 ± 5.0	132 ± 9.0	137 ± 3.5
0.1		85 ± 2.6		151 ± 13.9	
0.33		80 ± 5.0		234 ± 18.9	
3.3		106 ± 5.7		1239 ± 107.5	
10.0	104 ± 2.0	103 ± 1.2	1169 ± 85.2	1637 ± 79.3	1196 ± 37.7
33.0	100 ± 6.5		500 ± 82.3		1526 ± 74.7
100.0	138 ± 7.2		528 ± 72.0		1126 ± 24.3
333.0	156 ± 4.7		339 ± 74.2		1527 ± 103.2
450.0	166 ± 14.7		537 ± 74.3		1661 ± 195.5
Trial Summary	Equivocal	Negative	Positive	Positive	Positive
1.02		1403 ± 196.1	544 ± 41.4	1157 ± 82.5	726 ± 20.8

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	150 ± 9.7
0.1	170 ± 15.8
0.33	254 ± 11.6
3.3	1445 ± 125.9
10.0	1249 ± 97.7
33.0	
100.0	
333.0	
450.0	
Trial Summary	Positive
1.02	Positive Control ³

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9
Vehicle Control ¹	8 ± 1.7	13 ± 2.1
10.0	10 ± 0.9	18 ± 9.5
33.0	11 ± 0.9	11 ± 7.0
100.0	9 ± 2.3	4 ± 1.0
333.0	6 ± 1.3	6 ± 0.0
450.0	8 ± 1.2	5 ± 1.5
Trial Summary	Negative	Negative
Positive Control ²		78 ± 6.4
Positive Control ³	597 ± 50.1	

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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 ± 1.2	5 ± 0.6	7 ± 2.6	8 ± 0.3	8 ± 1.2
0.1		4 ± 0.7		11 ± 1.5	
0.33		5 ± 1.5		11 ± 1.5	
3.3		5 ± 0.6		69 ± 4.0	
10.0	8 ± 3.4	5 ± 0.7	16 ± 9.0	163 ± 21.8	74 ± 1.7
33.0	5 ± 0.6		16 ± 2.5		85 ± 5.5
100.0	6 ± 0.9		7 ± 5.5		115 ± 13.2
333.0	6 ± 1.5		8 ± 3.7		59 ± 3.4
450.0	5 ± 0.7		10 ± 2.4		67 ± 8.4
Trial Summary	Negative	Negative	Negative	Positive	Positive
1.02		79 ± 1.9	23 ± 4.7	64 ± 5.8	64 ± 4.3

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.0
0.1	15 ± 1.0
0.33	20 ± 1.2
3.3	126 ± 23.6
10.0	158 ± 7.8
33.0	
100.0	
333.0	
450.0	
Trial Summary	Positive
1.02	Positive Control ⁴

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: 2-Aminoanthracene

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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	19 ± 1.5	16 ± 2.2	34 ± 9.2	19 ± 1.7	32 ± 4.1
0.1		11 ± 1.2		43 ± 6.9	
0.33		10 ± 1.9		147 ± 3.8	
3.3		16 ± 2.2		1261 ± 225.2	
10.0	15 ± 1.8	16 ± 2.4	1897 ± 50.4	2251 ± 109.5	2017 ± 9.5
33.0	19 ± 2.3		1903 ± 43.2		2097 ± 21.0
100.0	16 ± 4.0		1753 ± 46.2		2061 ± 37.4
333.0	17 ± 2.2		1938 ± 72.5		1986 ± 69.6
450.0	23 ± 4.6		1971 ± 94.4		1905 ± 48.0
Trial Summary	Negative	Negative	Positive	Positive	Positive
1.02		987 ± 56.0	482 ± 80.4	1229 ± 28.7	830 ± 70.2

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.2
0.1	56 ± 8.4
0.33	222 ± 27.4
3.3	1295 ± 183.4
10.0	1885 ± 68.1
33.0	
100.0	
333.0	
450.0	
Trial Summary	Positive
1.02	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: Dimethyl Sulfoxide
- 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 ****