

Experiment Number: 793997

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzo(a)pyrene

CAS Number: 50-32-8

Date Report Requested: 09/18/2018

Time Report Requested: 06:27:27

NTP Study Number:

793997

Study Result:

Positive

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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	76 ± 7.5	143 ± 4.6	114 ± 12.7	138 ± 5.5	130 ± 9.2
1.0	74 ± 6.7	129 ± 7.0	319 ± 9.3	237 ± 10.4	299 ± 12.4
3.3	90 ± 14.0	117 ± 9.0	533 ± 19.7	382 ± 13.3	336 ± 20.3
10.0	98 ± 1.8	118 ± 2.0	689 ± 21.1	415 ± 12.5	376 ± 16.0
33.0	93 ± 8.0	106 ± 6.8	713 ± 34.1	433 ± 11.6	382 ± 21.5
100.0	Toxic	98 ± 5.4	645 ± 45.0	449 ± 12.1	454 ± 4.6
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			717 ± 20.3	455 ± 60.2	1094 ± 20.5
Positive Control ³	560 ± 31.5	426 ± 33.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	165 ± 20.4
1.0	318 ± 5.4
3.3	283 ± 10.4
10.0	261 ± 11.9
33.0	271 ± 7.8
100.0	286 ± 25.0
Trial Summary	Positive
Positive Control ²	677 ± 51.1
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.9	10 ± 2.2	8 ± 1.3	12 ± 3.5	12 ± 1.5
1.0	7 ± 1.7	9 ± 0.0	19 ± 5.0	37 ± 3.8	28 ± 13.5
3.3	7 ± 1.0	11 ± 2.0	20 ± 2.3	32 ± 1.9	16 ± 1.5
10.0	9 ± 2.9	9 ± 1.2	13 ± 2.6	30 ± 4.8	13 ± 1.9
33.0	7 ± 1.2	11 ± 0.9	15 ± 1.7	28 ± 6.8	16 ± 4.9
100.0	7 ± 1.5	13 ± 2.3	13 ± 1.8	46 ± 13.3	21 ± 4.1
Trial Summary	Negative	Negative	Equivocal	Positive	Negative
Positive Control ²			57 ± 17.3	54 ± 3.2	84 ± 20.5
Positive Control ³	603 ± 43.5	563 ± 11.0			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 7.0
1.0	21 ± 5.5
3.3	28 ± 4.3
10.0	31 ± 7.4
33.0	31 ± 5.6
100.0	37 ± 13.3
Trial Summary	Equivocal
Positive Control ²	155 ± 16.4
Positive Control ³	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Benzo(a)pyrene

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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	5 ± 1.5	7 ± 2.3	3 ± 0.3	11 ± 2.3	9 ± 1.5
1.0	2 ± 0.9	7 ± 2.7	27 ± 4.3	23 ± 4.8	19 ± 4.5
3.3	2 ± 1.2	7 ± 2.6	45 ± 2.3	39 ± 4.2	37 ± 1.7
10.0	5 ± 0.3	5 ± 1.5	22 ± 5.7	28 ± 3.2	28 ± 9.2
33.0	4 ± 1.2	5 ± 0.7	21 ± 2.0	25 ± 1.9	18 ± 6.6
100.0	5 ± 3.4	8 ± 1.2	23 ± 1.3	31 ± 4.3	18 ± 0.9
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			30 ± 7.0	52 ± 5.7	67 ± 14.5
Positive Control ⁴	179 ± 47.3	40 ± 3.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.7
1.0	21 ± 2.8
3.3	32 ± 5.9
10.0	30 ± 5.9
33.0	23 ± 2.7
100.0	25 ± 2.3
Trial Summary	Positive
Positive Control ²	148 ± 15.0
Positive Control ⁴	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Benzo(a)pyrene

CAS Number: 50-32-8

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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	15 ± 0.6	12 ± 0.9	23 ± 1.2	17 ± 1.0	25 ± 3.1
1.0	10 ± 1.5	14 ± 2.4	80 ± 4.0	67 ± 8.1	101 ± 12.5
3.3	16 ± 4.5	12 ± 2.0	143 ± 9.4	108 ± 9.0	126 ± 3.1
10.0	16 ± 4.2	14 ± 1.2	125 ± 8.7	104 ± 8.5	123 ± 14.2
33.0	10 ± 2.5	10 ± 1.9	111 ± 7.0	99 ± 14.4	129 ± 12.5
100.0	9 ± 3.0	13 ± 2.3	111 ± 5.4	101 ± 14.7	131 ± 4.3
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²			720 ± 87.5	430 ± 26.2	908 ± 86.1
Positive Control ⁵	305 ± 22.2	323 ± 37.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	27 ± 2.3
1.0	82 ± 1.8
3.3	96 ± 7.0
10.0	82 ± 4.9
33.0	91 ± 9.0
100.0	80 ± 10.7
Trial Summary	Positive
Positive Control ²	762 ± 69.7
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 ****