

Experiment Number: 977830

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Vat brown 1

CAS Number: 2475-33-4

Date Report Requested: 09/18/2018

Time Report Requested: 03:01:43

NTP Study Number:

977830

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	106 ± 9.6	141 ± 8.1	127 ± 7.9	101 ± 2.6	139 ± 10.7
100.0	119 ± 7.5	138 ± 9.7 ^p	127 ± 4.5 ^p	113 ± 10.7 ^p	110 ± 7.5 ^p
333.0	94 ± 0.9	139 ± 5.6 ^p	127 ± 5.9 ^p	94 ± 6.7 ^p	120 ± 10.1 ^p
1000.0	107 ± 6.1	127 ± 4.7 ^p	107 ± 6.2 ^p	73 ± 6.5 ^p	117 ± 6.1 ^p
3333.0	93 ± 4.8 ^p	121 ± 2.3 ^p	102 ± 9.5 ^p	82 ± 3.4 ^p	107 ± 3.4 ^p
10000.0	76 ± 5.8 ^p	112 ± 4.1 ^p	95 ± 5.9 ^p	73 ± 6.1 ^p	104 ± 9.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					652 ± 21.5
Positive Control ³			461 ± 40.2		
Positive Control ⁴	354 ± 13.7	398 ± 22.4			
Positive Control ⁵				567 ± 21.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	84 ± 4.6
100.0	97 ± 7.3 ^p
333.0	83 ± 5.8 ^p
1000.0	114 ± 4.9 ^p
3333.0	96 ± 6.7 ^p
10000.0	81 ± 7.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	564 ± 47.5
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.3	21 ± 1.2	13 ± 1.2	13 ± 1.2	11 ± 2.7
100.0	19 ± 3.4	22 ± 1.5 ^p	10 ± 1.2 ^p	11 ± 2.3 ^p	12 ± 0.6 ^p
333.0	12 ± 1.7	16 ± 1.8 ^p	14 ± 2.6 ^p	15 ± 2.2 ^p	12 ± 2.0 ^p
1000.0	11 ± 1.5	13 ± 1.5 ^p	10 ± 1.9 ^p	14 ± 1.5 ^p	11 ± 1.2 ^p
3333.0	12 ± 0.9 ^p	16 ± 1.2 ^p	13 ± 2.7 ^p	11 ± 3.2 ^p	10 ± 0.6 ^p
10000.0	16 ± 1.2 ^p	18 ± 2.7 ^p	15 ± 2.5 ^p	10 ± 2.4 ^p	15 ± 2.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					142 ± 16.1
Positive Control ⁴	455 ± 23.6	371 ± 6.3			
Positive Control ⁵			95 ± 7.3		
Positive Control ⁶				97 ± 3.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 2.3
100.0	9 ± 0.0
333.0	14 ± 1.7
1000.0	7 ± 1.2
3333.0	12 ± 1.9 ^p
10000.0	14 ± 1.8 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	443 ± 32.7
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	112 ± 6.4	156 ± 11.6	186 ± 1.7	175 ± 1.9	175 ± 3.8
100.0	152 ± 7.8	174 ± 2.6 ^P	213 ± 6.6 ^P	186 ± 8.3 ^P	186 ± 6.3 ^P
333.0	147 ± 10.7	157 ± 20.0 ^P	207 ± 9.5 ^P	221 ± 9.7 ^P	177 ± 14.8 ^P
1000.0	154 ± 3.2	158 ± 9.0 ^P	193 ± 6.2 ^P	202 ± 3.2 ^P	182 ± 10.5 ^P
3333.0	154 ± 2.5 ^P	157 ± 8.1 ^P	203 ± 14.9 ^P	213 ± 3.9 ^P	172 ± 4.9 ^P
10000.0	154 ± 8.1 ^P	140 ± 6.1 ^P	169 ± 10.2 ^P	120 ± 31.9 ^X	152 ± 7.9 ^P
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					422 ± 18.8
Positive Control ³			357 ± 6.9		
Positive Control ⁵				363 ± 17.8	
Positive Control ⁷	627 ± 12.7	442 ± 35.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	144 ± 1.3
100.0	162 ± 4.4
333.0	183 ± 12.7
1000.0	176 ± 10.9
3333.0	174 ± 6.2 ^p
10000.0	108 ± 3.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	355 ± 6.7
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 3.8	17 ± 2.6	26 ± 2.4	32 ± 4.3	27 ± 6.6
100.0	13 ± 1.5	15 ± 0.3 ^p	26 ± 3.5 ^p	39 ± 1.8 ^p	35 ± 1.5 ^p
333.0	16 ± 2.6	15 ± 1.3 ^p	44 ± 3.3 ^p	45 ± 0.6 ^p	45 ± 2.3 ^p
1000.0	12 ± 1.8	11 ± 1.5 ^p	34 ± 2.2 ^p	53 ± 0.6 ^p	47 ± 3.1 ^p
3333.0	14 ± 0.6 ^p	16 ± 1.8 ^p	16 ± 3.2 ^p	32 ± 0.9 ^p	29 ± 3.5 ^p
10000.0	8 ± 2.3 ^p	6 ± 1.0 ^p	19 ± 3.8 ^p	36 ± 3.0 ^p	21 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					530 ± 10.3
Positive Control ³			323 ± 2.0	164 ± 3.7	
Positive Control ⁸	507 ± 31.8	561 ± 23.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	33 ± 5.5
100.0	41 ± 4.7 ^P
333.0	48 ± 7.7 ^P
1000.0	45 ± 4.6 ^P
3333.0	50 ± 2.9 ^P
10000.0	46 ± 0.9 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	514 ± 18.2
Positive Control 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: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 1.0 ug/Plate Sodium Azide
- 5: 2.5 ug/Plate 2-Aminoanthracene
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate
- x: Slight Toxicity and Precipitate

** END OF REPORT **