

Experiment Number: 772334

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

G06: Ames Summary Data

Test Compound: **Dimethyl hydrogen phosphite**

CAS Number: **868-85-9**

Date Report Requested: **09/17/2018**

Time Report Requested: **21:06:14**

NTP Study Number:

772334

Study Result:

Equivocal

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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	145 ± 10.4	149 ± 5.4	188 ± 1.9	197 ± 8.4	223 ± 3.5
100.0	144 ± 13.8	152 ± 11.5	188 ± 21.9	170 ± 4.4	177 ± 17.9
333.0	192 ± 12.0	156 ± 9.8	239 ± 11.9	186 ± 17.7	192 ± 15.3
1000.0	161 ± 16.2	151 ± 6.5	225 ± 22.2	189 ± 13.3	204 ± 5.8
3333.0	203 ± 6.4	179 ± 9.6	268 ± 2.4	199 ± 5.9	197 ± 18.2
10000.0	204 ± 13.5	168 ± 9.1	269 ± 22.9	224 ± 3.6	206 ± 9.3
Trial Summary	Equivocal	Equivocal	Weakly Positive	Negative	Negative
Positive Control ²			1405 ± 77.4	2073 ± 71.3	3362 ± 176.8
Positive Control ³	1882 ± 197.2	1305 ± 23.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	209 ± 3.5	110 ± 6.1
100.0	200 ± 7.8	92 ± 3.3
333.0	223 ± 1.5	112 ± 6.2
1000.0	248 ± 8.3	110 ± 4.3
3333.0	242 ± 11.3	84 ± 13.8
10000.0	234 ± 10.1	Toxic
Trial Summary	Equivocal	Negative
Positive Control ²	1014 ± 68.0	1919 ± 139.9
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% Rat S9
Vehicle Control ¹	19 ± 1.7	26 ± 3.0	37 ± 5.2	32 ± 1.5	11 ± 1.7
100.0	22 ± 1.8	34 ± 3.5	29 ± 4.1	28 ± 2.4	10 ± 3.0
333.0	25 ± 1.0	33 ± 1.9	33 ± 2.9	26 ± 0.7	13 ± 1.5
1000.0	16 ± 0.7	32 ± 2.8	34 ± 1.2	37 ± 2.4	12 ± 2.0
3333.0	25 ± 1.2	32 ± 1.9	27 ± 7.0	40 ± 4.1	14 ± 4.1
10000.0	19 ± 0.7	26 ± 1.5	27 ± 1.2	40 ± 4.5	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			264 ± 19.2	432 ± 15.5	447 ± 23.4
Positive Control ³	823 ± 68.2	816 ± 93.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	27 ± 3.6	35 ± 5.2	13 ± 2.2
100.0	27 ± 1.8	33 ± 2.0	13 ± 2.0
333.0	30 ± 2.3	37 ± 2.3	11 ± 1.2
1000.0	31 ± 4.5	42 ± 6.2	12 ± 0.3
3333.0	30 ± 6.3	37 ± 3.2	13 ± 2.4
10000.0	34 ± 4.6	40 ± 3.6	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	255 ± 15.8	348 ± 33.0	367 ± 45.1
Positive Control ³			

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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	14 ± 4.1	16 ± 0.9	22 ± 1.3	19 ± 1.5	21 ± 1.8
100.0	17 ± 2.2	14 ± 2.2	20 ± 2.4	27 ± 1.9	20 ± 1.2
333.0	17 ± 1.0	13 ± 0.7	14 ± 2.1	18 ± 2.4	17 ± 0.6
1000.0	14 ± 2.3	18 ± 2.7	22 ± 2.5	19 ± 4.2	19 ± 1.7
3333.0	12 ± 1.8	14 ± 0.6	12 ± 2.4	19 ± 2.6	19 ± 1.8
10000.0	10 ± 0.7	11 ± 1.2	17 ± 1.5	15 ± 0.9	12 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			99 ± 3.0	142 ± 21.1	167 ± 11.3
Positive Control ⁵	195 ± 29.9	275 ± 84.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 3.2
100.0	27 ± 4.3
333.0	19 ± 2.9
1000.0	25 ± 2.4
3333.0	24 ± 1.8
10000.0	17 ± 4.2
Trial Summary	Negative
Positive Control ⁴	281 ± 20.8
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	28 ± 3.8	31 ± 3.2	35 ± 10.1	55 ± 2.7	39 ± 2.7
100.0	27 ± 2.5	35 ± 2.6	33 ± 0.6	51 ± 1.9	35 ± 2.1
333.0	29 ± 1.2	33 ± 1.8	51 ± 4.7	47 ± 3.8	36 ± 2.5
1000.0	31 ± 2.6	37 ± 4.4	51 ± 0.6	52 ± 7.2	26 ± 6.0
3333.0	32 ± 1.9	37 ± 3.2	46 ± 1.0	47 ± 4.4	34 ± 1.9
10000.0	40 ± 5.5	42 ± 5.9	56 ± 2.3	38 ± 6.7	Toxic
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²			973 ± 71.0	1598 ± 63.0	1125 ± 80.5
Positive Control ⁶	510 ± 6.1	228 ± 8.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	35 ± 8.6	57 ± 5.2	43 ± 4.2
100.0	37 ± 1.3	51 ± 8.5	36 ± 8.5
333.0	48 ± 5.2	69 ± 0.5	39 ± 4.3
1000.0	52 ± 3.2	48 ± 5.2	31 ± 3.5
3333.0	47 ± 1.9	54 ± 6.4	29 ± 6.1
10000.0	57 ± 4.7	42 ± 5.5	Toxic
Trial Summary	Equivocal	Negative	Negative
Positive Control ²	2806 ± 109.1	821 ± 25.2	1213 ± 142.9
Positive Control ⁶			

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****