G06: Bacterial Reverse Mutation (Ames) Test Summary Data

Study Number: 888679
Test Type: Genetic Toxicology - Bacterial Mutagenicity

Test Compound: Triphenyl Phosphate
CAS Number: 115-86-6
DTXSID: DTXSID1021952

Date: 16 Jun 2026
Time: 07:40:34 PM

Summary of Results

	Result
Overall Study Result	
	Negative
TA100 individual trial result	
TA100 without S9 Trial 1	Equivocal
TA100 without S9 Trial 2	Negative
TA100 with 10% rat S9 Trial 1	Equivocal
TA100 with 10% rat S9 Trial 2	Negative
TA100 with 10% hamster S9 Trial 1	Negative
TA100 with 10% hamster S9 Trial 2	Negative
TA100 overall result	
	Negative
TA98 individual trial result	
TA98 without S9 Trial 1	Negative
TA98 without S9 Trial 2	Negative
TA98 with 10% rat S9 Trial 1	Negative
TA98 with 10% rat S9 Trial 2	Negative
TA98 with 10% hamster S9 Trial 1	Negative
TA98 with 10% hamster S9 Trial 2	Negative
TA98 overall result	
	Negative
TA1535 individual trial result	
TA1535 without S9 Trial 1	Negative
TA1535 without S9 Trial 2	Negative
TA1535 with 10% rat S9 Trial 1	Negative
TA1535 with 10% rat S9 Trial 2	Negative
TA1535 with 10% hamster S9 Trial 1	Negative
TA1535 with 50% hamster S9 Trial 2	Negative
TA1535 overall result	
	Negative
TA1537 individual trial result	
TA1537 without S9 Trial 1	Negative
TA1537 without S9 Trial 2	Negative
TA1537 with 10% rat S9 Trial 1	Negative
TA1537 with 10% rat S9 Trial 2	Negative
TA1537 with 10% hamster S9 Trial 1	Negative
TA1537 with 50% hamster S9 Trial 2	Negative
TA1537 overall result	
	Negative

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Revertant colony counts

Strain: TA100								
	No rat S9 T1	No rat S9 T1 Fold Change	No rat S9 T2	No rat S9 T2 Fold Change	10% rat S9 T1	10% rat S9 T1 Fold Change	10% rat S9 T2	10% rat S9 T2 Fold Change
Vehicle Control (95% Ethanol)								
0 ug/plate	108.0 ± 6		122.0 ± 9		116.0 ± 14		119.0 ± 17	
Treated								
100 ug/plate	134.0 ± 5	1.2	132.0 ± 7	1.1	161.0 ± 28	1.4	157.0 ± 6	1.3
333 ug/plate	183.0 ± 29	1.7	139.0 ± 24	1.1	153.0 ± 2	1.3	136.0 ± 10	1.1
1000 ug/plate	186.0 ± 23	1.7	143.0 ± 9	1.2	188.0 ± 34	1.6	158.0 ± 13	1.3
3333 ug/plate	181.0 ± 8	1.7	132.0 ± 16	1.1	170.0 ± 15	1.5	145.0 ± 30	1.2
10000 ug/plate	172.0 ± 11	1.6	132.0 ± 6	1.1	150.0 ± 2	1.3	133.0 ± 14	1.1
Trial Summary								
Result	Equivocal		Negative		Equivocal		Negative	
Positive Controls								
NaN3 1.0 ug/plate	467.0 ± 31	4.3	477.0 ± 11	3.9				
2-AA 1.0 ug/plate					846.0 ± 46	7.3	820.0 ± 64	6.9

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Revertant colony counts

Strain: TA100				
	10% hamster S9 T1	10% hamster S9 T1 Fold Change	10% hamster S9 T2	10% hamster S9 T2 Fold Change
Vehicle Control (95% Ethanol)				
0 ug/plate	134.0 ± 14		127.0 ± 20	
Treated				
100 ug/plate	149.0 ± 27	1.1	151.0 ± 4	1.2
333 ug/plate	162.0 ± 12	1.2	129.0 ± 20	1.0
1000 ug/plate	157.0 ± 25	1.2	136.0 ± 17	1.1
3333 ug/plate	164.0 ± 9	1.2	151.0 ± 1	1.2
10000 ug/plate	160.0 ± 14	1.2	153.0 ± 15	1.2
Trial Summary				
Result	Negative		Negative	
Positive Controls				
2-AA 1.0 ug/plate	2355.0 ± 60	17.6	1510.0 ± 87	11.9

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Revertant colony counts

Strain: TA98								
	No rat S9 T1	No rat S9 T1 Fold Change	No rat S9 T2	No rat S9 T2 Fold Change	10% rat S9 T1	10% rat S9 T1 Fold Change	10% rat S9 T2	10% rat S9 T2 Fold Change
Vehicle Control (95% Ethanol)								
0 ug/plate	28.0 ± 4		19.0 ± 5		37.0 ± 4		35.0 ± 2	
Treated								
100 ug/plate	26.0 ± 5	0.9	21.0 ± 5	1.1	38.0 ± 12	1.0	28.0 ± 4	0.8
333 ug/plate	28.0 ± 8	1.0	24.0 ± 4	1.3	44.0 ± 10	1.2	28.0 ± 10	0.8
1000 ug/plate	25.0 ± 5	0.9	20.0 ± 5	1.1	44.0 ± 5	1.2	28.0 ± 4	0.8
3333 ug/plate	28.0 ± 2	1.0	22.0 ± 6	1.2	32.0 ± 6	0.9	20.0 ± 5	0.6
10000 ug/plate	25.0 ± 4	0.9	23.0 ± 10	1.2	36.0 ± 5	1.0	28.0 ± 2	0.8
Trial Summary								
Result	Negative		Negative		Negative		Negative	
Positive Controls								
4-NPD 5.0 ug/plate	758.0 ± 25	27.1	722.0 ± 14	38.0				
2-AA 1.0 ug/plate					436.0 ± 9	11.8	591.0 ± 77	16.9

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Revertant colony counts

Strain: TA98				
	10% hamster S9 T1	10% hamster S9 T1 Fold Change	10% hamster S9 T2	10% hamster S9 T2 Fold Change
Vehicle Control (95% Ethanol)				
0 ug/plate	48.0 ± 10		37.0 ± 5	
Treated				
100 ug/plate	37.0 ± 6	0.8	29.0 ± 1	0.8
333 ug/plate	36.0 ± 6	0.8	32.0 ± 8	0.9
1000 ug/plate	35.0 ± 6	0.7	32.0 ± 9	0.9
3333 ug/plate	35.0 ± 3	0.7	30.0 ± 6	0.8
10000 ug/plate	25.0 ± 7	0.5	30.0 ± 3	0.8
Trial Summary				
Result	Negative		Negative	
Positive Controls				
2-AA 1.0 ug/plate	1856.0 ± 34	38.7	1102.0 ± 115	29.8

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Revertant colony counts

Strain: TA1535								
	No rat S9 T1	No rat S9 T1 Fold Change	No rat S9 T2	No rat S9 T2 Fold Change	10% rat S9 T1	10% rat S9 T1 Fold Change	10% rat S9 T2	10% rat S9 T2 Fold Change
Vehicle Control (95% Ethanol)								
0 ug/plate	31.0 ± 1		35.0 ± 5		41.0 ± 10		30.0 ± 7	
Treated								
100 ug/plate	36.0 ± 7	1.2	43.0 ± 4	1.2	40.0 ± 7	1.0	21.0 ± 5	0.7
333 ug/plate	41.0 ± 8	1.3	33.0 ± 9	0.9	41.0 ± 5	1.0	28.0 ± 2	0.9
1000 ug/plate	47.0 ± 9	1.5	31.0 ± 12	0.9	47.0 ± 2	1.1	26.0 ± 6	0.9
3333 ug/plate	43.0 ± 13	1.4	43.0 ± 9	1.2	36.0 ± 7	0.9	26.0 ± 1	0.9
10000 ug/plate	37.0 ± 12	1.2	44.0 ± 3	1.3	36.0 ± 11	0.9	22.0 ± 10	0.7
Trial Summary								
Result	Negative		Negative		Negative		Negative	
Positive Controls								
NaN3 1.0 ug/plate	443.0 ± 50	14.3	399.0 ± 31	11.4				
2-AA 2.5 ug/plate					331.0 ± 24	8.1	266.0 ± 58	8.9

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Revertant colony counts

Strain: TA1535				
	10% hamster S9 T1	10% hamster S9 T1 Fold Change	50% hamster S9 T1	50% hamster S9 T1 Fold Change
Vehicle Control (95% Ethanol)				
0 ug/plate	29.0 ± 2		42.0 ± 6	
Treated				
100 ug/plate	27.0 ± 6	0.9	35.0 ± 10	0.8
333 ug/plate	27.0 ± 14	0.9	40.0 ± 8	1.0
1000 ug/plate	29.0 ± 12	1.0	47.0 ± 6	1.1
3333 ug/plate	28.0 ± 2	1.0	31.0 ± 3	0.7
10000 ug/plate	26.0 ± 6	0.9	33.0 ± 4	0.8
Trial Summary				
Result	Negative		Negative	
Positive Controls				
2-AA 2.5 ug/plate	563.0 ± 48	19.4	645.0 ± 44	15.4

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Revertant colony counts

Strain: TA1537								
	No rat S9 T1	No rat S9 T1 Fold Change	No rat S9 T2	No rat S9 T2 Fold Change	10% rat S9 T1	10% rat S9 T1 Fold Change	10% rat S9 T2	10% rat S9 T2 Fold Change
Vehicle Control (95% Ethanol)								
0 ug/plate	11.0 ± 3		5.0 ± 1		14.0 ± 2		12.0 ± 5	
Treated								
100 ug/plate	11.0 ± 5	1.0	7.0 ± 2	1.4	9.0 ± 5	0.6	7.0 ± 2	0.6
333 ug/plate	6.0 ± 2	0.5	5.0 ± 1	1.0	10.0 ± 2	0.7	7.0 ± 1	0.6
1000 ug/plate	6.0 ± 3	0.5	6.0 ± 1	1.2	15.0 ± 3	1.1	8.0 ± 3	0.7
3333 ug/plate	6.0 ± 1	0.5	7.0 ± 1	1.4	11.0 ± 8	0.8	6.0 ± 1	0.5
10000 ug/plate	6.0 ± 3	0.5	8.0 ± 3	1.6	9.0 ± 7	0.6	4.0 ± 1	0.3
Trial Summary								
Result	Negative		Negative		Negative		Negative	
Positive Controls								
9-AMM 50.0 ug/plate	388.0 ± 58	35.3	205.0 ± 70	41.0				
2-AA 2.5 ug/plate					266.0 ± 17	19.0	241.0 ± 27	20.1

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Revertant colony counts

Strain: TA1537				
	10% hamster S9 T1	10% hamster S9 T1 Fold Change	50% hamster S9 T1	50% hamster S9 T1 Fold Change
Vehicle Control (95% Ethanol)				
0 ug/plate	8.0 ± 2		19.0 ± 8	
Treated				
100 ug/plate	7.0 ± 1	0.9	18.0 ± 1	0.9
333 ug/plate	7.0 ± 5	0.9	8.0 ± 4	0.4
1000 ug/plate	7.0 ± 2	0.9	10.0 ± 4	0.5
3333 ug/plate	7.0 ± 1	0.9	9.0 ± 5	0.5
10000 ug/plate	6.0 ± 1	0.8	8.0 ± 2	0.4
Trial Summary				
Result	Negative		Negative	
Positive Controls				
2-AA 2.5 ug/plate	465.0 ± 26	58.1	591.0 ± 29	31.1

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LEGEND

CAS Number = Chemical Abstracts Service registry number

"S9" refers to the induced rat liver S9 or hamster liver S9 fraction, supplemented with cofactors

T1 and T2 refer to Trial 1 (initial) and Trial 2 (confirmatory), respectively

Values given as Mean or Mean ± Standard Deviation

The number of plates = 3, unless plates marked toxic or contaminated were excluded from mean and standard deviation calculations

"Fold change" is the ratio of the mean number of revertant colonies on a treated plate divided by the mean number of revertant colonies on the control plate.

Positive controls (no S9): NaN3 = sodium azide; 9-AMM = 9-Aminoacridine, monohydrochloride, monohydrate; 4-NPD = 4-Nitro-O-Phenylenediamine

Positive controls (10% rat S9, 10% hamster S9, 50% hamster S9): 2-AA = 2-aminoanthracene

** END OF REPORT **