

G06: Bacterial Reverse Mutation (Ames) Test Summary Data

Study Number: G06065B

Test Compound: 2,2'-Dimorpholinodiethyl ether

Date: 24 Feb 2026

Test Type: Genetic Toxicology - Bacterial Mutagenicity

CAS Number: 6425-39-4

Time: 11:11:59 AM

DTXSID: DTXSID9042170

Summary of Results

	Result
Overall Study Result	Negative
TA100 individual trial result	
TA100 without S9	Negative
TA100 with 10% rat S9	Negative
TA100 with 30% rat S9	Negative
TA100 with 10%Uninduced Rat Lung S9	Negative
TA100 with 30% Uninduced Rat Lung S9	Negative
TA100 overall result	Negative
TA98 individual trial result	
TA98 without S9	Negative
TA98 with 10% rat S9	Negative
TA98 with 30% rat S9	Negative
TA98 with 10%Uninduced Rat Lung S9	Negative
TA98 with 30% Uninduced Rat Lung S9	Negative
TA98 overall result	Negative
E. coli WP2 uvrA pKM101 individual trial result	
E. coli WP2 uvrA pKM101 without S9	Negative
E. coli WP2 uvrA pKM101 with 10% rat S9	Negative
E. coli WP2 uvrA pKM101 with 30% rat S9	Negative
E. coli WP2 uvrA pKM101 with 10%Uninduced Rat Lung S9	Negative
E. coli WP2 uvrA pKM101 with 30% Uninduced Rat Lung S9	Negative
E. coli WP2 uvrA pKM101 overall result	Negative

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Revertant colony counts

Strain: TA100							
	No rat S9	No rat S9 Fold Change	10% rat S9	10% rat S9 Fold Change	30% rat S9	30% rat S9 Fold Change	
Vehicle Control (Water)							
0 (µg/plate)	97.7 ± 9		86.0 ± 20		94.7 ± 12		
Treated							
500 (µg/plate)	78.3 ± 8	0.8	77.3 ± 12	0.9	103.3 ± 13	1.1	
750 (µg/plate)	98.7 ± 28	1.0	88.0 ± 10	1.0	92.0 ± 6	1.0	
1000 (µg/plate)	79.7 ± 15	0.8	86.7 ± 11	1.0	105.3 ± 17	1.1	
3000 (µg/plate)	86.7 ± 7	0.9	95.0 ± 1	1.1	104.3 ± 18	1.1	
6000 (µg/plate)	95.3 ± 6	1.0	90.3 ± 9	1.1	115.7 ± 20	1.2	
Trial Summary							
Result	Negative		Negative		Negative		
Positive Controls							
NaN3 1 (µg/plate)	758.3 ± 8	7.8					
B[a]P 2 (µg/plate)			677.3 ± 15	7.9	310.0 ± 36	3.3	

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Revertant colony counts

Strain: TA100 - Uninduced Rat Lung

	10% rat S9	10% rat S9 Fold Change	30% rat S9	30% rat S9 Fold Change
Vehicle Control (Water)				
0 (µg/plate)	84.7 ± 2		69.7 ± 7	
Treated				
500 (µg/plate)	73.7 ± 17	0.9	54.7 ± 25	0.8
750 (µg/plate)	82.3 ± 10	1.0	68.0 ± 8	1.0
1000 (µg/plate)	77.3 ± 17	0.9	78.7 ± 9	1.1
3000 (µg/plate)	76.3 ± 6	0.9	66.0 ± 4	0.9
6000 (µg/plate)	84.0 ± 15	1.0	73.7 ± 4	1.1
Trial Summary				
Result	Negative		Negative	
Positive Controls				
2-AA 2.5 (µg/plate)	325.7 ± 79	3.8	1296.0 ± 4	18.6

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Revertant colony counts

Strain: TA98							
	No rat S9	No rat S9 Fold Change	10% rat S9	10% rat S9 Fold Change	30% rat S9	30% rat S9 Fold Change	
Vehicle Control (Water)							
0 (µg/plate)	12.3 ± 3		20.7 ± 6		17.7 ± 5		
Treated							
500 (µg/plate)	13.0 ± 5	1.1	24.7 ± 8	1.2	27.7 ± 6	1.6	
750 (µg/plate)	23.0 ± 7	1.9	23.0 ± 4	1.1	20.3 ± 2	1.2	
1000 (µg/plate)	17.7 ± 4	1.4	19.0 ± 6	0.9	31.3 ± 2	1.8	
3000 (µg/plate)	16.7 ± 6	1.4	22.3 ± 4	1.1	21.0 ± 2	1.2	
6000 (µg/plate)	17.0 ± 6	1.4	26.3 ± 3	1.3	22.3 ± 6	1.3	
Trial Summary							
Result	Negative		Negative		Negative		
Positive Controls							
2-NF 3 (µg/plate)	661.0 ± 31	53.6					
2-AA 2 (µg/plate)			1480.3 ± 136	71.6	331.0 ± 24	18.7	

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Revertant colony counts

Strain: TA98 - Uninduced Rat Lung

	10% rat S9	10% rat S9 Fold Change	30% rat S9	30% rat S9 Fold Change
Vehicle Control (Water)				
0 (µg/plate)	16.0 ± 5		23.7 ± 4	
Treated				
500 (µg/plate)	20.3 ± 3	1.3	19.0 ± 2	0.8
750 (µg/plate)	18.0 ± 5	1.1	21.3 ± 4	0.9
1000 (µg/plate)	17.3 ± 1	1.1	20.3 ± 4	0.9
3000 (µg/plate)	17.3 ± 4	1.1	16.3 ± 5	0.7
6000 (µg/plate)	20.3 ± 3	1.3	17.7 ± 7	0.7
Trial Summary				
Result	Negative		Negative	
Positive Controls				
2-AA 2 (µg/plate)	107.0 ± 42	6.7	469.7 ± 95	19.8

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Revertant colony counts

Strain: WP2 uvrA pKM101							
	No rat S9	No rat S9 Fold Change	10% rat S9	10% rat S9 Fold Change	30% rat S9	30% rat S9 Fold Change	
Vehicle Control (Water)							
0 (µg/plate)	137.7 ± 19		205.0 ± 10		215.3 ± 25		
Treated							
500 (µg/plate)	135.0 ± 16	1.0	204.0 ± 12	1.0	211.3 ± 16	1.0	
750 (µg/plate)	125.3 ± 22	0.9	199.3 ± 8	1.0	191.3 ± 19	0.9	
1000 (µg/plate)	138.3 ± 6	1.0	189.7 ± 14	0.9	194.7 ± 12	0.9	
3000 (µg/plate)	146.7 ± 11	1.1	207.3 ± 2	1.0	191.0 ± 21	0.9	
6000 (µg/plate)	123.3 ± 2	0.9	215.0 ± 16	1.0	210.3 ± 19	1.0	
Trial Summary							
Result	Negative		Negative		Negative		
Positive Controls							
4-NQO 0.25 (µg/plate)	1459.3 ± 144	10.6					
2-AA 20 (µg/plate)			1364.3 ± 32	6.7	898.0 ± 71	4.2	

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Revertant colony counts

Strain: WP2 uvrA pKM101 - Uninduced Rat Lung

	10% rat S9	10% rat S9 Fold Change	30% rat S9	30% rat S9 Fold Change
Vehicle Control (Water)				
0 (µg/plate)	124.7 ± 13		137.3 ± 10	
Treated				
500 (µg/plate)	139.3 ± 6	1.1	155.3 ± 26	1.1
750 (µg/plate)	145.5 ± 18	1.2	138.3 ± 6	1.0
1000 (µg/plate)	136.0 ± 11	1.1	144.7 ± 13	1.1
3000 (µg/plate)	130.3 ± 13	1.0	135.7 ± 20	1.0
6000 (µg/plate)	131.0 ± 23	1.1	147.0 ± 14	1.1
Trial Summary				
Result	Negative		Negative	
Positive Controls				
2-AA 40 (µg/plate)	188.3 ± 15	1.5		
2-AA 80 (µg/plate)	213.7 ± 4	1.7		
2-AA 20 (µg/plate)			421.3 ± 78	3.1

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LEGEND

CAS Number = Chemical Abstracts Service registry number

“S9” refers to the induced rat liver or uninduced rat lung S9 fraction, supplemented with cofactors.

Values given as Mean or Mean \pm 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; 2-NF = 2-nitrofluorene; 4-NQO = 4-Nitroquinoline 1-oxide

Positive controls (10% rat S9): B[a]P = benzo[a]pyrene; 2-AA = 2-aminoanthracene

** END OF REPORT **