

G06: Bacterial Reverse Mutation (Ames) Test Summary Data

Study Number: G06065

Test Type: Genetic Toxicology - Bacterial Mutagenicity

Test Compound: 2,2'-Dimorpholinodiethyl ether

CAS Number: 6425-39-4

DTXSID: DTXSID9042170

Date: 16 Feb 2026

Time: 3:23:23 PM

Summary of Results

	Result
Overall Study Result	Negative
TA100 individual trial result	
TA100 without S9 Trial 1	Negative
TA100 without S9 Trial 2	Negative
TA100 with 10% rat S9 Trial 1	Negative
TA100 with 10% rat 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 overall result	Negative
E. coli WP2 uvrA pKM101 individual trial result	
E. coli WP2 uvrA pKM101 without S9 Trial 1	Negative
E. coli WP2 uvrA pKM101 without S9 Trial 2	Negative
E. coli WP2 uvrA pKM101 with 10% rat S9 Trial 1	Negative
E. coli WP2 uvrA pKM101 with 10% rat S9 Trial 2	Negative
E. coli WP2 uvrA pKM101 overall result	Negative

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Revertant colony counts

Strain: TA100	T1 No rat S9	T1 No rat S9 Fold Change	T2 No rat S9	T2 No rat S9 Fold Change	T1 10% rat S9	T1 10% rat S9 Fold Change	T2 10% rat S9	T2 10% rat S9 Fold Change
Vehicle Control (DMSO)								
0 (µg/plate)	82.7 ± 4		109.7 ± 6		94.0 ± 3		98.3 ± 9	
Treated								
12.5 (µg/plate)			105.0 ± 29	1.0			94.0 ± 14	1.0
50 (µg/plate)			98.7 ± 15	0.9			109.7 ± 1	1.1
100 (µg/plate)	87.3 ± 19	1.1			86.3 ± 7	0.9		
125 (µg/plate)			108.3 ± 9	1.0			99.3 ± 22	1.0
500 (µg/plate)	78.3 ± 10	0.9	113.3 ± 5	1.0	80.7 ± 5	0.9	89.3 ± 7	0.9
1000 (µg/plate)	70.0 ± 4	0.8			85.7 ± 8	0.9		
1500 (µg/plate)			101.3 ± 12	0.9			104.0 ± 5	1.1
3000 (µg/plate)	75.7 ± 9	0.9			82.3 ± 15	0.9		
6000 (µg/plate)	88.0 ± 1	1.1	106.0 ± 14	1.0	89.0 ± 7	0.9	100.0 ± 21	1.0
Trial Summary								
Result	Negative		Negative		Negative		Negative	
Positive Controls								
NaN3 1 (µg/plate)	690.3 ± 25	8.4	740.3 ± 48	6.8				
2-AA 5 (µg/plate)					688.3 ± 150	7.3		
2-AA 2.5 (µg/plate)							1771.7 ± 182	18.0

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Revertant colony counts

Strain: TA98									
	T1 No rat S9	T1 No rat S9 Fold Change	T2 No rat S9	T2 No rat S9 Fold Change	T1 10% rat S9	T1 10% rat S9 Fold Change	T2 10% rat S9	T2 10% rat S9 Fold Change	
Vehicle Control (DMSO)									
0 (µg/plate)	18.3 ± 6		25.7 ± 7		31.0 ± 14		31.0 ± 5		
Treated									
12.5 (µg/plate)			24.7 ± 6	1.0			25.7 ± 6	0.8	
50 (µg/plate)			26.3 ± 2	1.0			29.3 ± 5	0.9	
100 (µg/plate)	16.3 ± 4	0.9			27.7 ± 2	0.9			
125 (µg/plate)			17.0 ± 7	0.7			31.7 ± 16	1.0	
500 (µg/plate)	21.0 ± 5	1.1	26.0 ± 8	1.0	27.7 ± 4	0.9	27.3 ± 5	0.9	
1000 (µg/plate)	15.0 ± 5	0.8			22.0 ± 8	0.7			
1500 (µg/plate)			32.0 ± 4	1.2			29.3 ± 2	0.9	
3000 (µg/plate)	18.3 ± 7	1.0			29.3 ± 5	0.9			
6000 (µg/plate)	19.7 ± 6	1.1	30.7 ± 6	1.2	26.0 ± 5	0.8	33.3 ± 6	1.1	
Trial Summary									
Result	Negative		Negative		Negative		Negative		
Positive Controls									
2-NF 3 (µg/plate)	420.7 ± 12	22.9	368.7 ± 105	14.4					
2-AA 2 (µg/plate)					638.0 ± 89	20.6	64.7 ± 5	2.1	

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Revertant colony counts

Strain: WP2 uvrA pKM101									
	T1 No rat S9	T1 No rat S9 Fold Change	T2 No rat S9	T2 No rat S9 Fold Change	T1 10% rat S9	T1 10% rat S9 Fold Change	T2 10% rat S9	T2 10% rat S9 Fold Change	
Vehicle Control (DMSO)									
0 (µg/plate)	101.3 ± 10		159.0 ± 11		123.7 ± 13		178.3 ± 18		
Treated									
12.5 (µg/plate)			140.7 ± 17	0.9			169.7 ± 17	1.0	
50 (µg/plate)			139.7 ± 13	0.9			171.7 ± 16	1.0	
100 (µg/plate)	107.7 ± 16	1.1			121.7 ± 11	1.0			
125 (µg/plate)			156.0 ± 14	1.0			186.7 ± 6	1.0	
500 (µg/plate)	110.7 ± 24	1.1	131.3 ± 4	0.8	129.3 ± 7	1.0	188.7 ± 14	1.1	
1000 (µg/plate)	102.3 ± 19	1.0			137.3 ± 14	1.1			
1500 (µg/plate)			142.7 ± 24	0.9			196.3 ± 30	1.1	
3000 (µg/plate)	113.7 ± 18	1.1			131.3 ± 9	1.1			
6000 (µg/plate)	106.0 ± 7	1.0	160.7 ± 15	1.0	134.7 ± 19	1.1	170.3 ± 10	1.0	
Trial Summary									
Result	Negative		Negative		Negative		Negative		
Positive Controls									
MMS 100 (µg/plate)	1323.7 ± 247	13.1	1063.7 ± 10	6.7					
2-AA 10 (µg/plate)					433.7 ± 45	3.5			
2-AA 20 (µg/plate)							742.7 ± 51	4.2	

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LEGEND

CAS Number = Chemical Abstracts Service registry number

“S9” refers to the induced rat 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 \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; MMS = methyl methanesulfonate

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

** END OF REPORT **