

Experiment Number: 331518

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

G06: Ames Summary Data

Test Compound: **Melphalan**

CAS Number: **148-82-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **16:55:59**

NTP Study Number:

331518

Study Result:

Positive

Experiment Number: 331518

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Melphalan

CAS Number: 148-82-3

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	152 ± 3.2	103 ± 9.3	199 ± 6.7	124 ± 8.3	186 ± 7.9
6.7	166 ± 4.0	120 ± 7.1	233 ± 19.2	157 ± 10.1	180 ± 4.7
20.0	178 ± 5.9	194 ± 7.8			
67.0	248 ± 8.5	384 ± 7.8	385 ± 13.7	311 ± 6.6	307 ± 12.2
200.0	364 ± 4.5	977 ± 18.3	696 ± 17.7	779 ± 7.5	460 ± 7.5
667.0	904 ± 28.8	868 ± 13.0			
2000.0			1097 ± 30.0 ^s	1132 ± 20.6	1037 ± 11.8
8000.0			1250 ± 7.8 ^s	1189 ± 37.7 ^s	1145 ± 19.4 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	354 ± 16.4	512 ± 9.5			
Positive Control ³					521 ± 19.9
Positive Control ⁴			1401 ± 15.9	1447 ± 73.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	104 ± 12.3
6.7	106 ± 7.8
20.0	
67.0	246 ± 7.5
200.0	507 ± 19.5
667.0	
2000.0	1119 ± 39.5
8000.0	1080 ± 25.8 ^s
Trial Summary	Positive
Positive Control ²	
Positive Control ³	1047 ± 2.5
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	20 ± 2.3	20 ± 1.2	32 ± 4.9	33 ± 3.3	40 ± 2.1
6.7	20 ± 2.6	21 ± 4.2	32 ± 1.8	35 ± 2.6	32 ± 4.6
20.0	25 ± 3.8	24 ± 2.3			
67.0	23 ± 5.2	20 ± 2.0	40 ± 7.3	32 ± 5.0	32 ± 2.4
200.0	28 ± 3.5	23 ± 2.6	46 ± 4.5	49 ± 2.6	45 ± 0.9
667.0	45 ± 2.0	41 ± 2.3			
2000.0			74 ± 1.8	58 ± 13.2	81 ± 1.9
8000.0			40 ± 0.3 ^s	45 ± 2.6 ^s	48 ± 4.7 ^s
Trial Summary	Equivocal	Equivocal	Equivocal	Negative	Equivocal
Positive Control ⁵					133 ± 6.8
Positive Control ³			378 ± 9.0	312 ± 3.5	
Positive Control ⁶	316 ± 8.0	320 ± 10.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	36 ± 2.9
6.7	35 ± 3.8
20.0	
67.0	33 ± 1.3
200.0	37 ± 0.6
667.0	
2000.0	87 ± 1.2
8000.0	37 ± 1.2 ^s
Trial Summary	Equivocal
Positive Control ⁵	208 ± 11.4
Positive Control ³	
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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****