

Experiment Number: 986479

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Melamine

CAS Number: 108-78-1

Date Report Requested: 09/18/2018

Time Report Requested: 07:26:19

NTP Study Number:

986479

Study Result:

Negative

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G06: Ames Summary Data

Date Report Requested: 09/18/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Melamine

Time Report Requested: 07:26:19

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	89 ± 5.4	95 ± 3.0	82 ± 14.8	136 ± 9.0	131 ± 24.4
3.3	95 ± 2.6			196 ± 2.3	
10.0	106 ± 8.4			165 ± 12.0	
33.0	110 ± 1.9	107 ± 8.1		167 ± 4.2	129 ± 16.2
100.0	126 ± 2.1	106 ± 19.0		172 ± 9.1	138 ± 19.3
111.0	129 ± 0.9			168 ± 3.7	
333.0		99 ± 19.3			136 ± 13.7
1000.0		114 ± 6.9	71 ± 1.0		136 ± 14.3
1111.0		102 ± 17.1			133 ± 31.0
3333.0			Toxic		
5550.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				2551 ± 47.3	1671 ± 149.6
Positive Control ³	471 ± 7.8	421 ± 120.6	473 ± 16.5		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	129 ± 4.9	132 ± 10.0	132 ± 17.6	108 ± 12.1
3.3		177 ± 12.0		
10.0		196 ± 9.8		
33.0		198 ± 6.6	183 ± 15.0	
100.0		173 ± 2.6	195 ± 17.6	
111.0		197 ± 3.9		
333.0			152 ± 27.2	
1000.0			157 ± 21.4	
1111.0			163 ± 21.7	
3333.0	5 ± 1.5			13 ± 6.7
5550.0	0 ± 0.0			0 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	1295 ± 23.1	2132 ± 23.0	1319 ± 29.7	2100 ± 76.4
Positive Control ³				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	6 ± 0.9	11 ± 3.2	5 ± 1.2	8 ± 2.6	13 ± 3.3
3.3	8 ± 0.6			8 ± 1.5	
10.0	7 ± 0.6			8 ± 1.9	
33.0	5 ± 1.2	16 ± 3.8		8 ± 2.5	12 ± 1.5
100.0	5 ± 1.5	16 ± 3.8		10 ± 1.5	18 ± 1.5
111.0	7 ± 0.7			5 ± 1.0	
333.0		11 ± 1.5			13 ± 2.7
1000.0		13 ± 3.8	0 ± 0.0		14 ± 0.9
1111.0		13 ± 2.7			16 ± 2.6
3333.0			Toxic		
5550.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				111 ± 6.0	175 ± 12.1
Positive Control ³	450 ± 7.6	1032 ± 17.2	56 ± 9.0		

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Test Compound: Melamine

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Date Report Requested: 09/18/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 2.1	8 ± 2.8	17 ± 4.7	3 ± 0.9
3.3		6 ± 0.9		
10.0		6 ± 1.2		
33.0		5 ± 0.9	14 ± 2.0	
100.0		9 ± 1.5	17 ± 1.7	
111.0		7 ± 2.0		
333.0			17 ± 2.2	
1000.0			13 ± 1.5	
1111.0			16 ± 0.7	
3333.0	2 ± 0.3			3 ± 0.9
5550.0	Toxic			3 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	41 ± 5.6	121 ± 6.8	138 ± 6.1	62 ± 6.2
Positive Control ³				

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Test Compound: Melamine

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	5 ± 1.5	3 ± 1.0	3 ± 0.9	6 ± 1.2	8 ± 1.2
3.3	4 ± 1.2			6 ± 1.0	
10.0	2 ± 0.3			5 ± 0.7	
33.0	2 ± 0.9	3 ± 1.2		6 ± 1.0	7 ± 0.6
100.0	8 ± 1.2	6 ± 0.9		3 ± 0.5	5 ± 0.7
111.0	2 ± 0.3			3 ± 0.3	
333.0		3 ± 1.2			3 ± 0.9
1000.0		2 ± 0.6	2 ± 0.3		5 ± 0.3
1111.0		3 ± 0.3			6 ± 1.5
3333.0			Toxic		
5550.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				122 ± 9.9	86 ± 19.6
Positive Control ⁴	1315 ± 109.8	775 ± 66.2	46 ± 1.2		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.6	7 ± 1.9	9 ± 1.0	3 ± 1.0
3.3		8 ± 1.5		
10.0		7 ± 1.5		
33.0		8 ± 1.2	6 ± 2.3	
100.0		8 ± 0.9	7 ± 1.5	
111.0		6 ± 0.7		
333.0			7 ± 0.9	
1000.0			7 ± 1.8	
1111.0			6 ± 2.5	
3333.0	1 ± 0.0			6 ± 1.2
5550.0	Toxic			1 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	43 ± 2.0	178 ± 19.0	85 ± 7.9	82 ± 11.7
Positive Control ⁴				

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

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CAS Number: 108-78-1

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	14 ± 0.7	17 ± 1.8	18 ± 2.0	20 ± 1.9	20 ± 2.6
3.3	12 ± 1.0			19 ± 1.2	
10.0	8 ± 1.2			33 ± 2.7	
33.0	12 ± 0.7	12 ± 1.5		21 ± 1.5	18 ± 2.0
100.0	11 ± 0.7	14 ± 1.5		22 ± 5.4	16 ± 3.5
111.0	13 ± 1.5			18 ± 1.5	
333.0		17 ± 0.7			21 ± 1.8
1000.0		15 ± 0.3	13 ± 1.0		19 ± 2.5
1111.0		15 ± 1.5			18 ± 1.2
3333.0			Toxic		
5550.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				2089 ± 207.8	1153 ± 33.2
Positive Control ⁵	479 ± 22.8	170 ± 5.2	160 ± 18.0		

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Test Compound: Melamine

Time Report Requested: 07:26:19

CAS Number: 108-78-1

Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 0.6	21 ± 2.6	27 ± 2.8	19 ± 1.2
3.3		23 ± 2.7		
10.0		17 ± 2.8		
33.0		29 ± 2.0	26 ± 6.4	
100.0		20 ± 3.4	20 ± 2.9	
111.0		24 ± 1.8		
333.0			28 ± 1.7	
1000.0			30 ± 1.0	
1111.0			24 ± 1.9	
3333.0	4 ± 1.2			3 ± 1.5
5550.0	2 ± 1.2			6 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	767 ± 44.7	2269 ± 106.2	1233 ± 87.7	1177 ± 19.4
Positive Control ⁵				

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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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 33.0 ug/Plate 9-Aminoacridine
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **