Experiment Number: **588849**

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

G06: Ames Summary Data

Test Compound: **1,2-Propylene oxide**

CAS Number: **75-56-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:39:27**

NTP Study Number: 588849

Study Result: Positive

Experiment Number: **588849**

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

G06: Ames Summary Data

Test Compound: **1,2-Propylene oxide**

CAS Number: **75-56-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:39:27**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	135 ± 2.6	99 ± 3.9	92 ± 7.5	159 ± 10.6	105 ± 12.5
100.0	117 ± 6.0	130 ± 2.9	94 ± 6.7	167 ± 10.9	106 ± 8.8
333.0	136 ± 5.9	173 ± 1.5	119 ± 7.6	191 ± 15.2	118 ± 6.6
1000.0	130 ± 4.8	292 ± 19.1	189 ± 9.2	337 ± 9.6	220 ± 7.1
3333.0	169 ± 11.6	705 ± 46.8	363 ± 11.1	640 ± 36.2	486 ± 27.2
10000.0	135 ± 6.6	1259 ± 208.8	795 ± 29.4	1291 ± 108.3	1020 ± 63.2
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control[2]		128 ± 11.5			
Positive Control[3]					
Positive Control[4]			400 ± 25.8		
Positive Control[5]					940 ± 87.3
Positive Control[6]				1342 ± 25.2	
Positive Control[7]	1561 ± 41.5				

Experiment Number: **588849**

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

G06: Ames Summary Data

Test Compound: **1,2-Propylene oxide**

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Date Report Requested: **09/14/2018**

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	155 ± 12.2	111 ± 2.3
100.0	150 ± 9.7	116 ± 7.1
333.0	206 ± 30.0	111 ± 8.5
1000.0	305 ± 22.3	187 ± 13.2
3333.0	555 ± 29.0	352 ± 38.7
10000.0	1309 ± 52.9	791 ± 10.8
Trial Summary	Positive	Positive
Positive Control[2]		
Positive Control[3]		383 ± 17.1
Positive Control[4]		
Positive Control[5]	828 ± 90.1	
Positive Control[6]		
Positive Control[7]		

Experiment Number: **588849**

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

G06: Ames Summary Data

Test Compound: **1,2-Propylene oxide**

CAS Number: **75-56-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:39:27**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	47 ± 9.1	23 ± 1.5	22 ± 3.8	15 ± 3.5	23 ± 3.8
100.0	59 ± 4.4	20 ± 2.4	42 ± 3.3	22 ± 2.4	21 ± 1.0
333.0	124 ± 44.7	53 ± 5.8	71 ± 8.0	42 ± 2.8	59 ± 8.0
1000.0	232 ± 35.2	122 ± 6.3	124 ± 8.2	96 ± 8.1	103 ± 4.0
3333.0	418 ± 11.7	347 ± 29.3	384 ± 17.4	307 ± 42.0	341 ± 7.0
10000.0	943 ± 146.8	721 ± 23.1	923 ± 64.1	802 ± 97.7[s]	896 ± 35.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[2]		56 ± 5.2			
Positive Control[3]					
Positive Control[5]					67 ± 4.9
Positive Control[6]			100 ± 2.6		
Positive Control[8]				159 ± 2.7	
Positive Control[7]	940 ± 22.6				

Experiment Number: **588849**

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

G06: Ames Summary Data

Test Compound: **1,2-Propylene oxide**

CAS Number: **75-56-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:39:27**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	15 ± 2.3
100.0	17 ± 2.7
333.0	36 ± 1.8
1000.0	97 ± 5.2
3333.0	299 ± 4.0
10000.0	562 ± 40.1
Trial Summary	Positive
Positive Control[2]	
Positive Control[3]	50 ± 4.8
Positive Control[5]	
Positive Control[6]	
Positive Control[8]	
Positive Control[7]	

Experiment Number: **588849**

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

G06: Ames Summary Data

Test Compound: **1,2-Propylene oxide**

CAS Number: **75-56-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:39:27**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	239 ± 3.8	84 ± 2.2	258 ± 8.4	110 ± 4.8	242 ± 4.7
100.0	224 ± 6.0	84 ± 6.7	274 ± 3.7	110 ± 9.5	263 ± 6.8
333.0	264 ± 9.0	86 ± 9.6	351 ± 11.3	118 ± 3.7	328 ± 26.2
1000.0	358 ± 12.3	109 ± 7.7	637 ± 21.5	151 ± 5.0	460 ± 17.7
3333.0	661 ± 103.7	250 ± 7.3	1226 ± 15.9	268 ± 10.5	1186 ± 16.0
10000.0	1079 ± 162.5	430 ± 20.2[s]	1527 ± 58.4	409 ± 28.6[s]	1492 ± 39.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[3]					
Positive Control[5]					948 ± 14.7
Positive Control[6]			1070 ± 35.1		
Positive Control[8]				1338 ± 58.4	
Positive Control[9]		774 ± 42.5			
Positive Control[10]	527 ± 29.4				

Experiment Number: **588849**

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

G06: Ames Summary Data

Test Compound: **1,2-Propylene oxide**

CAS Number: **75-56-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:39:27**

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	99 ± 4.8
100.0	103 ± 5.3
333.0	142 ± 4.2
1000.0	148 ± 9.5
3333.0	240 ± 16.6
10000.0	426 ± 34.4[s]
Trial Summary	Positive
Positive Control[3]	307 ± 9.3
Positive Control[5]	
Positive Control[6]	
Positive Control[8]	
Positive Control[9]	
Positive Control[10]	

Experiment Number: **588849**

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

G06: Ames Summary Data

Test Compound: **1,2-Propylene oxide**

CAS Number: **75-56-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:39:27**

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	25 ± 6.0	83 ± 12.3	41 ± 2.4	95 ± 2.4	36 ± 2.0
100.0	19 ± 0.3	88 ± 5.6	34 ± 2.0	99 ± 7.0	32 ± 2.3
333.0	28 ± 2.8	90 ± 4.0	34 ± 1.3	97 ± 5.8	37 ± 6.1
1000.0	30 ± 0.6	97 ± 9.9	41 ± 1.5	99 ± 0.6	39 ± 1.5
3333.0	28 ± 3.5	94 ± 5.5	40 ± 5.0	95 ± 1.2	47 ± 3.8
10000.0	34 ± 1.2	98 ± 5.5	47 ± 1.8	102 ± 4.8	49 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[11]					180 ± 3.5
Positive Control[3]			217 ± 28.1		
Positive Control[5]				856 ± 21.3	
Positive Control[12]	185 ± 2.9				
Positive Control[6]		1010 ± 24.2			

LEGEND

Values given as Mean or Mean ± 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: 0.25 ug/Plate Sodium Azide
3: 0.4 ug/Plate 2-Aminoanthracene
4: 0.5 ug/Plate Sodium Azide
5: 0.75 ug/Plate 2-Aminoanthracene
6: 1.5 ug/Plate 2-Aminoanthracene
7: 2.5 ug/Plate Sodium Azide
8: 2.0 ug/Plate 2-Aminoanthracene
9: 3.5 ug/Plate 9-Aminoacridine
10: 4.0 ug/Plate 9-Aminoacridine
11: 0.2 ug/Plate 2-Aminoanthracene
12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **