

Experiment Number: **042000**

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

**G06: Ames Summary Data**

Test Compound: **Nonanal**

CAS Number: **124-19-6**

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

Time Report Requested: **20:23:24**

**NTP Study Number:**

042000

**Study Result:**

Negative

Experiment Number: 042000  
 Test Type: Genetic Toxicology - Bacterial  
 Mutagenicity

G06: Ames Summary Data  
 Test Compound: Nonanal  
 CAS Number: 124-19-6

Date Report Requested: 09/14/2018  
 Time Report Requested: 20:23:24

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	170 ± 4.5	133 ± 2.9	169 ± 8.9	122 ± 4.5	188 ± 5.2
1.0	173 ± 10.4	110 ± 8.4			
3.3	159 ± 3.3	119 ± 1.5		135 ± 2.1	
10.0	153 ± 1.9	130 ± 8.1	156 ± 8.2	134 ± 1.9	170 ± 9.2
33.0	175 ± 5.2	109 ± 8.8	170 ± 6.4	133 ± 15.6	160 ± 12.5
100.0	132 ± 24.3 <sup>s</sup>	101 ± 14.7 <sup>s</sup>	167 ± 5.5	117 ± 6.1	157 ± 2.1
333.0			Toxic	119 ± 3.0 <sup>s</sup>	161 ± 3.5
666.0			138 ± 6.0 <sup>s</sup>		183 ± 1.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					692 ± 23.2
Positive Control <sup>3</sup>			1145 ± 4.3	986 ± 21.5	
Positive Control <sup>4</sup>	1285 ± 21.8	1495 ± 36.0			

Experiment Number: 042000  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
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CAS Number: 124-19-6

Date Report Requested: 09/14/2018  
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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	135 ± 3.8
1.0	
3.3	
10.0	113 ± 6.2
33.0	132 ± 5.0
100.0	113 ± 14.4
333.0	131 ± 4.0
666.0	101 ± 10.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	575 ± 32.2
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

Experiment Number: 042000  
 Test Type: Genetic Toxicology - Bacterial  
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 CAS Number: 124-19-6

Date Report Requested: 09/14/2018  
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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	41 ± 2.2	39 ± 3.8	28 ± 1.2	35 ± 3.2	24 ± 3.5
1.0	41 ± 2.0	34 ± 3.1			
3.3	37 ± 1.5	34 ± 2.4		36 ± 4.6	
10.0	33 ± 4.7	33 ± 2.2	32 ± 2.2	33 ± 1.5	24 ± 4.2
33.0	23 ± 4.1	28 ± 0.9	33 ± 3.9	30 ± 2.6	26 ± 3.5
100.0	18 ± 3.2 <sup>s</sup>	Toxic	31 ± 3.1	39 ± 2.3	20 ± 3.6
333.0			Toxic	18 ± 1.8 <sup>s</sup>	13 ± 3.8 <sup>s</sup>
666.0			Toxic		21 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					71 ± 2.6
Positive Control <sup>3</sup>			98 ± 7.5	112 ± 0.5	
Positive Control <sup>4</sup>	1232 ± 20.8	1285 ± 19.7			

Experiment Number: 042000  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Nonanal  
CAS Number: 124-19-6

Date Report Requested: 09/14/2018  
Time Report Requested: 20:23:24

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	30 ± 2.0
1.0	
3.3	
10.0	31 ± 0.9
33.0	26 ± 2.3
100.0	26 ± 1.9
333.0	25 ± 2.5
666.0	18 ± 1.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	117 ± 2.9
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

Experiment Number: 042000  
 Test Type: Genetic Toxicology - Bacterial  
 Mutagenicity

G06: Ames Summary Data  
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Date Report Requested: 09/14/2018  
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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 2.1	4 ± 1.2	10 ± 2.8	10 ± 2.4	6 ± 1.0
1.0	7 ± 2.0	5 ± 1.2			
3.3	10 ± 1.2	6 ± 1.9		7 ± 1.0	
10.0	4 ± 1.2	5 ± 2.3	8 ± 1.3	7 ± 0.0	7 ± 2.1
33.0	11 ± 0.0	6 ± 1.5	10 ± 1.5	8 ± 1.9	7 ± 0.3
100.0	6 ± 1.5 <sup>s</sup>	7 ± 0.3 <sup>s</sup>	11 ± 2.6	9 ± 1.9	11 ± 1.5
333.0			Toxic	3 ± 1.9 <sup>s</sup>	8 ± 2.8 <sup>s</sup>
666.0			Toxic		8 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					68 ± 3.5
Positive Control <sup>3</sup>			113 ± 5.9	77 ± 7.6	
Positive Control <sup>5</sup>	411 ± 12.1	620 ± 57.9			

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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Nonanal  
CAS Number: 124-19-6

Date Report Requested: 09/14/2018  
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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 1.2
1.0	
3.3	
10.0	10 ± 0.9
33.0	9 ± 1.5
100.0	8 ± 1.8
333.0	10 ± 2.8
666.0	8 ± 0.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	44 ± 5.8
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

Experiment Number: 042000  
 Test Type: Genetic Toxicology - Bacterial  
 Mutagenicity

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Date Report Requested: 09/14/2018  
 Time Report Requested: 20:23:24

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 1.0	19 ± 1.9	38 ± 1.8	34 ± 5.2	32 ± 4.1
1.0	16 ± 1.9	17 ± 3.0			
3.3	21 ± 2.1	28 ± 3.1		29 ± 1.2	
10.0	23 ± 2.5	27 ± 2.5	28 ± 5.8	38 ± 4.4	32 ± 2.1
33.0	19 ± 2.5	21 ± 2.8	31 ± 4.9	39 ± 2.2	26 ± 2.5
100.0	16 ± 3.3 <sup>s</sup>	20 ± 0.7 <sup>s</sup>	34 ± 0.9	36 ± 6.1	29 ± 2.7
333.0			Toxic	26 ± 1.2 <sup>s</sup>	25 ± 0.6 <sup>s</sup>
666.0			25 ± 1.5 <sup>s</sup>		27 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					536 ± 57.2
Positive Control <sup>3</sup>			687 ± 20.5	802 ± 12.9	
Positive Control <sup>6</sup>	1504 ± 28.6	1180 ± 29.5			



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Mutagenicity

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Date Report Requested: 09/14/2018  
Time Report Requested: 20:23:24

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	35 ± 3.5
1.0	
3.3	
10.0	35 ± 0.3
33.0	35 ± 1.5
100.0	30 ± 2.0
333.0	36 ± 3.5
666.0	33 ± 5.4 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	510 ± 29.7
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	

Experiment Number: **042000**  
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### **LEGEND**

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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: 95% Ethanol

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***