

Experiment Number: 695827

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

**G06: Ames Summary Data**

Test Compound: **Navy fuels JP-5**

CAS Number: **8008-20-6**

Date Report Requested: **09/11/2018**

Time Report Requested: **18:15:07**

**NTP Study Number:**

695827

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Navy fuels JP-5

CAS Number: 8008-20-6

Date Report Requested: 09/11/2018

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## 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>	103 ± 6.7	101 ± 6.0	132 ± 18.4	130 ± 11.8	114 ± 5.0
10.0	106 ± 2.7				
33.0	101 ± 1.2				
100.0	95 ± 10.1	84 ± 3.2	137 ± 7.3	140 ± 7.3	157 ± 3.2
333.0	98 ± 4.4	91 ± 7.8	91 ± 17.7	166 ± 2.6	147 ± 16.1
1000.0	83 ± 7.2	92 ± 2.1	128 ± 18.8	176 ± 4.6	118 ± 5.6
3333.0		57 ± 6.7 <sup>s</sup>	121 ± 10.3 <sup>p</sup>	161 ± 4.3 <sup>p</sup>	154 ± 16.1 <sup>p</sup>
10000.0		59 ± 10.0 <sup>s</sup>	109 ± 3.2 <sup>p</sup>	169 ± 11.3 <sup>p</sup>	147 ± 4.4 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			970 ± 95.7	900 ± 15.3	1888 ± 400.7
Positive Control <sup>3</sup>	365 ± 12.5	424 ± 16.2			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	125 ± 2.1
10.0	
33.0	
100.0	137 ± 6.9
333.0	138 ± 9.9
1000.0	138 ± 9.2
3333.0	151 ± 6.5 <sup>P</sup>
10000.0	131 ± 17.1 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1895 ± 83.7
Positive Control <sup>3</sup>	

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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>	10 ± 2.9	15 ± 1.2	17 ± 1.7	16 ± 1.2	18 ± 1.2
10.0	15 ± 0.9				
33.0	18 ± 4.5				
100.0	11 ± 2.8	17 ± 3.0	20 ± 3.5	18 ± 5.4	19 ± 3.5
333.0	16 ± 3.9	13 ± 3.8	16 ± 1.3	18 ± 0.9	17 ± 1.7
1000.0	16 ± 2.0	9 ± 1.5	12 ± 1.5	15 ± 1.2	19 ± 1.9
3333.0		8 ± 2.6 <sup>p</sup>	16 ± 0.9 <sup>p</sup>	13 ± 2.9 <sup>p</sup>	17 ± 1.9 <sup>p</sup>
10000.0		9 ± 1.5 <sup>p</sup>	16 ± 1.0 <sup>p</sup>	15 ± 0.7 <sup>p</sup>	14 ± 1.7 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	222 ± 21.4	396 ± 2.3			
Positive Control <sup>4</sup>			295 ± 60.2	313 ± 77.0	461 ± 32.1

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 1.5
10.0	
33.0	
100.0	18 ± 1.2
333.0	12 ± 2.4
1000.0	14 ± 0.7
3333.0	19 ± 3.2 <sup>p</sup>
10000.0	19 ± 1.5 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	507 ± 35.4

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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>	7 ± 1.0	6 ± 0.7	6 ± 1.5	7 ± 0.9	7 ± 2.4
10.0	9 ± 0.3				
33.0	8 ± 2.3				
100.0	5 ± 0.3	6 ± 0.9	8 ± 1.0	8 ± 2.6	10 ± 2.2
333.0	7 ± 3.3	3 ± 2.3	8 ± 2.3	6 ± 1.0	7 ± 0.6
1000.0	3 ± 1.7	5 ± 2.3	11 ± 3.3	7 ± 0.6	10 ± 3.2
3333.0		4 ± 2.1 <sup>p</sup>	7 ± 0.0 <sup>p</sup>	7 ± 1.0 <sup>p</sup>	9 ± 1.7 <sup>p</sup>
10000.0		4 ± 0.6 <sup>p</sup>	10 ± 1.2 <sup>p</sup>	11 ± 1.7 <sup>p</sup>	7 ± 0.0 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			281 ± 2.1	283 ± 14.2	385 ± 63.6
Positive Control <sup>5</sup>	364 ± 55.7	100 ± 18.2			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	3 ± 0.3
10.0	
33.0	
100.0	9 ± 3.5
333.0	6 ± 1.8
1000.0	7 ± 5.0
3333.0	7 ± 2.3 <sup>p</sup>
10000.0	9 ± 2.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	353 ± 32.0
Positive Control <sup>5</sup>	

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Test Compound: Navy fuels JP-5

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## 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>	18 ± 3.8	18 ± 1.8	20 ± 1.9	41 ± 5.9	40 ± 5.2
10.0	18 ± 4.9				
33.0	17 ± 1.5				
100.0	19 ± 3.2	13 ± 0.7	28 ± 1.5	32 ± 3.2	36 ± 2.9
333.0	22 ± 3.8	15 ± 1.5	31 ± 3.6	42 ± 2.6	29 ± 6.5
1000.0	19 ± 3.8	18 ± 4.3	32 ± 3.9	42 ± 1.2	33 ± 3.5
3333.0		17 ± 1.8 <sup>p</sup>	35 ± 2.6 <sup>p</sup>	37 ± 6.6 <sup>p</sup>	39 ± 5.0 <sup>p</sup>
10000.0		21 ± 2.7 <sup>p</sup>	31 ± 4.4 <sup>p</sup>	34 ± 3.5 <sup>p</sup>	32 ± 5.5 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			719 ± 17.3	640 ± 8.7	1845 ± 75.2
Positive Control <sup>6</sup>	788 ± 85.0	760 ± 8.0			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	26 ± 3.1
10.0	
33.0	
100.0	34 ± 3.1
333.0	31 ± 4.2
1000.0	32 ± 3.8
3333.0	29 ± 3.7 <sup>p</sup>
10000.0	27 ± 3.8 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1761 ± 147.7
Positive Control <sup>6</sup>	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

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