

Experiment Number: **G18028B**

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

G06: Ames Summary Data

Test Compound: **Roundup PowerMax**

CAS Number: **ROUNDUPPOWERMAX**

Date Report Requested: **08/17/2021**

Time Report Requested: **16:53:36**

NTP Study Number:

G18028B

Study Result:

Negative

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Strain: TA100				
Dose (dilution)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	85.3 ± 8.4	89.7 ± 5.2	84.3 ± 0.9	107.3 ± 3.2
1:102400	86 ± 6.7	95.3 ± 2.9		
1:51200	95.3 ± 8.5	93.7 ± 3.8		
1:25600	82 ± 4.5	95 ± 7.0		
1:12800	86 ± 5.3	106.7 ± 12.4	90.3 ± 5.4	91.3 ± 0.9
1:6400	0 ± 0.0	0 ± 0.0	74.7 ± 2.4	85.3 ± 5.5
1:3200	0 ± 0.0	0.3 ± 0.3 ^s	90.7 ± 10.7	95 ± 7.0
1:1600			58.3 ± 3.9	92.7 ± 1.8
1:800			0 ± 0.0	0 ± 0.0
1:400			0 ± 0.0	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	747.7 ± 92.0	624 ± 28.3		
Positive Control ³			849 ± 133.1	710.3 ± 26.8

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Strain: TA1535

Dose (dilution)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	10.3 ± 0.7	14.3 ± 3.2	15.3 ± 1.7	11 ± 2.5
1:102400	17 ± 2.1	9.3 ± 1.5		
1:51200	23 ± 2.5	12.7 ± 2.2		
1:25600	18.3 ± 1.5	13.7 ± 3.3		
1:12800	13 ± 0.6	10.7 ± 2.0	13.7 ± 2.8	12 ± 2.6
1:6400	5.7 ± 0.9	8 ± 0.6	11.7 ± 1.9	11.3 ± 0.9
1:3200	0 ± 0.0	2.7 ± 2.7	14.7 ± 2.8	11 ± 1.0
1:1600			18.3 ± 0.9	10.7 ± 0.7
1:800			10.3 ± 1.5	3.3 ± 0.3
1:400			0 ± 0.0	0 ± 0.0
Trial Summary	Equivocal	Negative	Negative	Negative
Positive Control ²	683.3 ± 33.1	385 ± 12.5		
Positive Control ⁴			283.3 ± 98.4	311 ± 5.0

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Strain: TA97a				
Dose (dilution)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	124 ± 19.8	107 ± 4.0	161 ± 7.0	173.3 ± 13.0
1:102400	109.3 ± 10.7	132.7 ± 2.2		
1:51200	121.7 ± 6.9	138.3 ± 17.4		
1:25600	119.7 ± 2.4	117.3 ± 6.1		
1:12800	108 ± 2.9	139.7 ± 10.1	158.7 ± 3.3	192.7 ± 8.9
1:6400	20.3 ± 20.3	36.3 ± 36.3	179 ± 3.6	204 ± 5.1
1:3200	0 ± 0.0 ^s	0 ± 0.0	148.7 ± 19.1	207.3 ± 4.8
1:1600			119.3 ± 2.3	149.7 ± 7.5
1:800			29.3 ± 4.9	47.3 ± 3.7
1:400			0 ± 0.0	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁵	2706 ± 165.4	3149 ± 133.0		
Positive Control ⁴			2322 ± 35.6	2149.3 ± 125.3

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Strain: TA98				
Dose (dilution)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	56.3 ± 4.2	29.7 ± 1.2	56 ± 11.4	42.3 ± 8.3
1:102400	57.3 ± 4.3	32.3 ± 2.0		
1:51200	51.7 ± 5.8	31.3 ± 2.3		
1:25600	93.3 ± 8.2	29.3 ± 1.2		
1:12800	71 ± 5.5	35.3 ± 0.7	60.7 ± 2.0	36.3 ± 9.0
1:6400	13 ± 5.5	3.3 ± 3.3	46.3 ± 1.2	42 ± 4.7
1:3200	0 ± 0.0 ^s	0 ± 0.0	57 ± 0.6	32.3 ± 1.9
1:1600			51.3 ± 3.2	35.3 ± 6.4
1:800			28 ± 1.0	15.7 ± 2.7
1:400			0 ± 0.0	0 ± 0.0
Trial Summary	Equivocal	Negative	Negative	Negative
Positive Control ⁶			1930.7 ± 125.1	1983.7 ± 94.4
Positive Control ⁷	610.3 ± 78.3	331.3 ± 14.3		

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Strain: E. coli WP2 uvrA pKM101

Dose (dilution)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	111.7 ± 6.4	160.7 ± 5.2	129 ± 4.5	233.3 ± 14.1
1:3200	96 ± 12.7	166.7 ± 5.2	137.3 ± 7.2	237.3 ± 6.9
1:1600	107.3 ± 4.1	147.7 ± 10.9	146 ± 8.7	252.7 ± 13.9
1:800	103.3 ± 8.7	127.3 ± 7.2	127 ± 8.1	228.7 ± 11.3
1:400	73.7 ± 5.4	100 ± 12.5	143.3 ± 9.0	233.7 ± 17.9
1:200	0 ± 0.0	0 ± 0.0	82.3 ± 1.7	152.7 ± 3.9
1:100	0 ± 0.0	0 ± 0.0	8 ± 4.2	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁸	2383.3 ± 195.2	2796.7 ± 81.8		
Positive Control ⁹			1249 ± 73.7	1193.3 ± 9.1

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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

The S9 fraction refers to the liver unless otherwise indicated

1: Vehicle Control: Water

2: 1 ug/plate Sodium Azide

3: 2 ug/plate Benzo[a]pyrene

4: 2.5 ug/plate 2-Aminoanthracene

5: 0.25 ug/plate ICR191

6: 2 ug/plate 2-Aminoanthracene

7: 3 ug/plate 2-Nitrofluorene

8: 0.25 ug/plate 4-Nitroquinoline-N-oxide

9: 20 ug/plate 2-Aminoanthracene

s: Slight Toxicity

**** END OF REPORT ****