

Experiment Number: **G18020B**

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

G06: Ames Summary Data

Test Compound: **Mesotrione**

CAS Number: **104206-82-8**

Date Report Requested: **05/06/2021**

Time Report Requested: **09:08:28**

NTP Study Number:

G18020B

Study Result:

Positive

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Strain: TA100

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	103 ± 4.0	104.3 ± 12.5	101.7 ± 0.9	97.7 ± 7.2
100	101.7 ± 4.8	106.7 ± 8.3	96 ± 3.2	97 ± 10.0
200	119 ± 5.3	158 ± 11.1	98.3 ± 7.5	101 ± 1.5
500	141 ± 5.9	135.3 ± 7.0	115 ± 8.3	140.7 ± 11.7
1500	254.3 ± 12.0	207.3 ± 3.2	159 ± 14.2	176.7 ± 3.8
3000	349.3 ± 20.5	261.3 ± 22.3	164.7 ± 8.4	172.3 ± 22.6
6000	351.3 ± 12.7	191.7 ± 8.1	214 ± 27.8	137.3 ± 14.0
Trial Summary	Positive	Positive	Positive	Weakly Positive
Positive Control ²	828.3 ± 86.5	520.3 ± 51.0		
Positive Control ³			961.7 ± 111.2	621.7 ± 29.4

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Strain: TA1535

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	18 ± 5.7	10.3 ± 1.7	14.3 ± 2.2	12.7 ± 0.3
100	18 ± 5.9	13.3 ± 4.1	14.7 ± 1.9	13.3 ± 2.3
200	20.3 ± 5.0	11 ± 2.0	15.7 ± 0.9	12.7 ± 2.2
500	23.3 ± 3.4	15 ± 3.1	16.3 ± 1.8	15.3 ± 6.4
1500	33.3 ± 4.8	22.3 ± 4.3	21.7 ± 7.2	12 ± 2.6
3000	52 ± 3.1	32.7 ± 3.3	14.3 ± 2.8	10.7 ± 1.8
6000	118 ± 14.2	53.3 ± 1.9	35.3 ± 11.8	12.3 ± 2.7
Trial Summary	Positive	Positive	Equivocal	Negative
Positive Control ²	577 ± 27.7	361.7 ± 11.9		
Positive Control ⁴			331.7 ± 51.2	273.3 ± 12.3

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Strain: TA97a

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	106 ± 2.5	102.3 ± 8.7	177.7 ± 2.8	131 ± 9.5
100	173.7 ± 2.0	80 ± 11.5	204.7 ± 13.1	161.3 ± 6.6
200	200.7 ± 0.9	92.7 ± 9.9	217.7 ± 8.8	173 ± 18.6
500	240 ± 12.8	112 ± 28.3	221.7 ± 13.9	149.7 ± 2.9
1500	492.7 ± 20.9	280.3 ± 50.4	249 ± 15.3	243 ± 11.5
3000	686 ± 12.9	266 ± 9.3	338.7 ± 9.0	329.7 ± 9.0
6000	1117 ± 18.1	32.3 ± 11.3	485.7 ± 14.1	405 ± 33.5
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ⁵	2553.7 ± 130.5	2116.7 ± 393.2		
Positive Control ⁴			2384.3 ± 52.3	1958 ± 35.2

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Strain: TA98				
Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	36.3 ± 1.8	36.3 ± 2.9	42.3 ± 3.5	46.3 ± 6.4
100	46 ± 2.0	45.3 ± 6.0	38.3 ± 3.9	35.7 ± 3.4
200	63 ± 4.4	55.7 ± 4.4	54.3 ± 4.9	42.3 ± 5.2
500	107 ± 3.5	83 ± 7.6	65 ± 4.7	50.3 ± 4.5
1500	275.3 ± 4.2	178.3 ± 9.5	71.7 ± 7.4	65.3 ± 7.2
3000	346 ± 16.0	270 ± 21.8	82.3 ± 3.4	84 ± 7.1
6000	582.7 ± 10.3	402.7 ± 26.6	129 ± 6.4	118 ± 1.5
Trial Summary	Positive	Positive	Positive	Weakly Positive
Positive Control ⁶			1561.3 ± 35.3	2046.7 ± 159.8
Positive Control ⁷	129.7 ± 4.7	484.3 ± 18.3		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	203.3 ± 8.2	123.3 ± 6.2	274.3 ± 11.2	143.3 ± 7.5
100	195.7 ± 7.7	124 ± 8.4	286.3 ± 8.4	150 ± 10.7
200	226.3 ± 2.2	151.3 ± 7.2	290.3 ± 13.8	157.3 ± 13.2
500	205.3 ± 3.8	147.3 ± 14.5	278.7 ± 7.5	145.7 ± 13.3
1500	222 ± 2.5	147 ± 8.7	250.3 ± 11.9	146.7 ± 5.8
3000	214 ± 11.5	163.7 ± 11.9	236.7 ± 6.7	151.7 ± 6.7
6000	230.7 ± 9.9	172 ± 8.1	223.7 ± 3.5	135.7 ± 13.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁸	3104 ± 147.0	2492.3 ± 244.4		
Positive Control ⁹			1255.3 ± 98.8	1280 ± 21.5

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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

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

**** END OF REPORT ****