

Experiment Number: **G89024B**

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

G06: Ames Summary Data

Test Compound: **Metolachlor**

CAS Number: **51218-45-2**

Date Report Requested: **05/14/2021**

Time Report Requested: **13:16:34**

NTP Study Number:

G89024B

Study Result:

Negative

Experiment Number: G89024B

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Metolachlor

CAS Number: 51218-45-2

Date Report Requested: 05/14/2021

Time Report Requested: 13:16:34

Strain: TA100				
Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	56.7 ± 8.7	63.7 ± 4.2	85 ± 6.1	79.7 ± 5.2
10	74 ± 4.0			
20	66 ± 2.3	83.5 ± 12.5		
50	79.3 ± 13.9	74.5 ± 8.5		
100	72.7 ± 10.7	79.5 ± 9.5	78 ± 2.6	72.7 ± 2.4
200	71.7 ± 3.3	81.5 ± 1.5	84.3 ± 2.2	87 ± 6.1
500	0 ± 0.0	0 ± 0.0	81 ± 3.6	81.3 ± 1.7
1500		0 ± 0.0	73.7 ± 7.2	66 ± 3.5
3000			53 ± 3.8	0 ± 0.0
6000			41.3 ± 4.4	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	589.7 ± 15.2	633.3 ± 23.9		
Positive Control ³			847 ± 153.9	713 ± 77.5

Experiment Number: G89024B

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Metolachlor

CAS Number: 51218-45-2

Date Report Requested: 05/14/2021

Time Report Requested: 13:16:34

Strain: TA1535

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	15.7 ± 4.8	9.3 ± 1.9	10 ± 2.0	9 ± 0.6
10	11.3 ± 2.8			
20	11 ± 0.6	18 ± 0.0		
50	12.3 ± 3.2	10 ± 3.0		
100	17.7 ± 5.8	12.5 ± 6.5	12 ± 1.2	8.3 ± 2.2
200	7.7 ± 0.7	12.5 ± 1.5	15.7 ± 0.9	10 ± 1.5
500	9 ± 2.9	6.5 ± 2.5	16 ± 3.6	8.7 ± 3.0
1500		0 ± 0.0	12 ± 2.0	9.3 ± 1.5
3000			8.3 ± 0.3	9 ± 3.1
6000			6.3 ± 1.8	3.3 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	662.3 ± 48.9	312 ± 33.3		
Positive Control ⁴			352.7 ± 7.3	218.7 ± 2.3

Experiment Number: G89024B

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Metolachlor

CAS Number: 51218-45-2

Date Report Requested: 05/14/2021

Time Report Requested: 13:16:34

Strain: TA97a				
Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	101 ± 1.7	99 ± 4.7	127.3 ± 8.9	126 ± 6.1
10	118.3 ± 3.2			
20	110 ± 4.6	99.5 ± 0.5		
50	116.7 ± 4.9	101 ± 1.0		
100	122 ± 6.8	99 ± 7.0	164 ± 5.8	152.3 ± 11.3
200	118.7 ± 9.6	100 ± 6.0	148 ± 4.7	120.3 ± 5.0
500	77.7 ± 8.7	58 ± 11.0	146 ± 8.9	117 ± 5.1
1500		0 ± 0.0	104 ± 10.1	86.3 ± 2.9
3000			77.3 ± 2.6	81 ± 2.5
6000			59 ± 1.5	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴			2636.7 ± 47.2	2141.7 ± 135.8
Positive Control ⁵	2726 ± 117.7	3787.3 ± 117.3		

Experiment Number: G89024B

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Metolachlor

CAS Number: 51218-45-2

Date Report Requested: 05/14/2021

Time Report Requested: 13:16:34

Strain: TA98				
Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	13.3 ± 5.8	35 ± 1.5	17.7 ± 2.4	31.7 ± 0.3
10	19.3 ± 1.5			
20	16.3 ± 2.2	37 ± 3.0		
50	14.3 ± 2.7	27 ± 4.0		
100	16.3 ± 2.0	31 ± 0.0	27.3 ± 3.8	36.7 ± 3.0
200	13.7 ± 1.5	35 ± 5.0	20 ± 1.5	32.7 ± 4.1
500	11.7 ± 4.3	13 ± 3.0	22.7 ± 3.2	34.3 ± 4.5
1500		0 ± 0.0	16 ± 1.0	19.3 ± 0.3
3000			15 ± 1.0	11.7 ± 2.7
6000			13.7 ± 1.7	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁶			1675 ± 86.4	2441.3 ± 157.0
Positive Control ⁷	101.7 ± 4.2	361 ± 15.3		

Experiment Number: G89024B

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Metolachlor

CAS Number: 51218-45-2

Date Report Requested: 05/14/2021

Time Report Requested: 13:16:34

Strain: E. coli WP2 uvrA pKM101

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	159.7 ± 9.8	143.7 ± 3.3	154.7 ± 4.3	132 ± 13.5
100	116.7 ± 9.9	156.5 ± 16.5	206 ± 24.0	177.3 ± 5.5
200	132.7 ± 4.7	155.5 ± 1.5	192.7 ± 6.1	155.7 ± 12.0
500	118.7 ± 2.7	146 ± 3.0	196.3 ± 22.8	143.3 ± 8.3
1500	133.3 ± 10.7	137 ± 0.0	147.7 ± 8.5	143.7 ± 7.5
3000	125 ± 10.4	130 ± 10.0	132.3 ± 5.2	120 ± 15.0
6000	124 ± 7.8	111 ± 14.0	127 ± 8.7	106 ± 10.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁸			1285 ± 97.7	1167 ± 125.9
Positive Control ⁹	1840 ± 167.8	2568.7 ± 143.7		

Experiment Number: **G89024B**

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

G06: Ames Summary Data

Test Compound: **Metolachlor**

CAS Number: **51218-45-2**

Date Report Requested: **05/14/2021**

Time Report Requested: **13:16:34**

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: DMSO

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: 20 ug/plate 2-Aminoanthracene

9: 0.25 ug/plate 4-Nitroquinoline-N-oxide

**** END OF REPORT ****