Experiment Number: **748170**

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

G06: Ames Summary Data

Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

CAS Number: **101-14-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **10:26:13**

NTP Study Number: 748170

Study Result: Positive

Experiment Number: **748170**

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

G06: Ames Summary Data

Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

CAS Number: **101-14-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **10:26:13**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	99 ± 5.2	123 ± 8.0	130 ± 3.8	109 ± 9.5	113 ± 7.9
1.0	93 ± 7.8	119 ± 6.4			
3.3	104 ± 9.5	118 ± 5.9	149 ± 11.3	125 ± 11.7	148 ± 7.6
10.0	120 ± 10.8	123 ± 3.5	216 ± 14.9	176 ± 11.4	212 ± 11.5
33.0	108 ± 6.3	119 ± 2.0[s]	382 ± 8.8	279 ± 6.9	515 ± 14.5
67.0		66 ± 7.0[s]			
100.0	Toxic		538 ± 32.3[s]	423 ± 23.2	882 ± 7.9[s]
150.0			544 ± 12.3		892 ± 24.1[s]
200.0				Toxic	
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control[2]					2894 ± 8.4
Positive Control[3]			980 ± 58.9	905 ± 14.5	
Positive Control[4]	1074 ± 58.8	1429 ± 67.5			

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Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

CAS Number: **101-14-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **10:26:13**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	98 ± 4.1
1.0	
3.3	108 ± 11.2
10.0	110 ± 4.9
33.0	197 ± 7.5
67.0	
100.0	405 ± 5.8
150.0	
200.0	Toxic
Trial Summary	Positive
Positive Control[2]	1641 ± 45.2
Positive Control[3]	
Positive Control[4]	

Experiment Number: **748170**

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

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Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

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Date Report Requested: **09/17/2018**

Time Report Requested: **10:26:13**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control[1]	23 ± 1.7	11 ± 2.8	8 ± 1.3
1.0	24 ± 2.3		
3.3	24 ± 4.1	13 ± 2.0	8 ± 2.5
10.0	22 ± 3.5	7 ± 1.3	12 ± 2.1
33.0	22 ± 2.5	10 ± 1.3	13 ± 3.5
100.0	Toxic	13 ± 2.1	13 ± 1.2
200.0		Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control[2]			137 ± 0.9
Positive Control[3]		56 ± 3.5	
Positive Control[4]	887 ± 14.0		

Experiment Number: **748170**

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

G06: Ames Summary Data

Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

CAS Number: **101-14-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **10:26:13**

Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control[1]	7 ± 2.3	8 ± 0.9	7 ± 2.1
1.0	4 ± 0.3		
3.3	7 ± 1.2	11 ± 3.6	4 ± 0.3
10.0	5 ± 0.9	6 ± 1.2	8 ± 0.7
33.0	4 ± 1.5	13 ± 0.6	10 ± 2.3
100.0	Toxic	8 ± 0.9	7 ± 1.5
200.0		6 ± 0.9[s]	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control[2]			213 ± 12.3
Positive Control[3]		62 ± 3.3	
Positive Control[5]	87 ± 12.2		

Experiment Number: **748170**

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

G06: Ames Summary Data

Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

CAS Number: **101-14-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **10:26:13**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	14 ± 1.2	19 ± 4.2	29 ± 2.5	28 ± 5.0	35 ± 3.4
1.0	17 ± 0.9	22 ± 2.2			
3.3	18 ± 1.2	21 ± 2.4		29 ± 4.3	
10.0	18 ± 2.1	20 ± 1.5		27 ± 1.5	40 ± 0.6
33.0	17 ± 0.9	16 ± 1.9	50 ± 2.6	38 ± 4.0	
67.0		20 ± 1.7	49 ± 3.2		69 ± 2.0
100.0	12 ± 1.8[s]		53 ± 3.7	56 ± 4.7	74 ± 4.1
150.0			57 ± 3.6[s]		83 ± 6.8[s]
200.0			51 ± 5.5[s]	54 ± 2.0[s]	93 ± 6.2[s]
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control[2]					1785 ± 94.9
Positive Control[3]			937 ± 25.7	494 ± 33.3	
Positive Control[6]	1174 ± 89.3	1586 ± 117.0			

Experiment Number: **748170**

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

G06: Ames Summary Data

Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

CAS Number: **101-14-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **10:26:13**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	30 ± 3.0
1.0	
3.3	25 ± 3.7
10.0	35 ± 2.4
33.0	30 ± 2.8
67.0	
100.0	60 ± 9.9
150.0	
200.0	77 ± 1.2[s]
Trial Summary	Positive
Positive Control[2]	1530 ± 59.8
Positive Control[3]	
Positive Control[6]	

LEGEND

Values given as Mean or Mean ± 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: Dimethyl Sulfoxide
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 **