NTP Study Number: 944170

Study Result: Equivocal

Experiment Number: **944170**

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: **16:24:24**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	99 ± 1.2	108 ± 9.8	164 ± 15.7	142 ± 11.7	160 ± 8.6
1.0		102 ± 11.9			
3.3	80 ± 5.5	95 ± 5.6	147 ± 6.1	131 ± 3.1	156 ± 7.6
10.0	75 ± 3.0	89 ± 4.0	179 ± 2.6	145 ± 9.2	176 ± 6.2
33.0	106 ± 6.3	94 ± 11.9	164 ± 10.3	148 ± 4.2	149 ± 4.8
100.0	74 ± 4.9	85 ± 5.6	150 ± 2.3	159 ± 16.5	176 ± 3.1
333.0	Toxic		133 ± 10.0	137 ± 11.9	230 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control[2]			2440 ± 73.1	1359 ± 165.2	2057 ± 90.3
Positive Control[3]	733 ± 35.0	722 ± 23.9			

Experiment Number: **944170**

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

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

Time Report Requested: **16:24:24**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	169 ± 8.0
1.0	
3.3	158 ± 7.5
10.0	177 ± 4.5
33.0	225 ± 3.0
100.0	268 ± 7.3
333.0	278 ± 19.7
Trial Summary	Equivocal
Positive Control[2]	1023 ± 28.3
Positive Control[3]	

Experiment Number: **944170**

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**

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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[1]	10 ± 2.4	8 ± 0.3	16 ± 3.3	13 ± 0.9	17 ± 2.3
3.3	11 ± 1.2	8 ± 0.9	12 ± 1.8	11 ± 0.6	19 ± 0.9
10.0	11 ± 0.7	5 ± 1.5	17 ± 2.6	11 ± 1.7	15 ± 0.9
33.0	11 ± 1.3	9 ± 0.7	10 ± 0.7	11 ± 2.1	21 ± 1.7
100.0	10 ± 2.4	7 ± 1.5	15 ± 0.3	9 ± 1.7	10 ± 0.7
333.0	4 ± 0.7	4 ± 0.7	15 ± 0.3	11 ± 0.7	7 ± 0.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			357 ± 13.2	182 ± 15.7	332 ± 13.4
Positive Control[3]	628 ± 41.5	957 ± 173.9			

Experiment Number: **944170**

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: **16:24:24**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	13 ± 2.0
3.3	10 ± 2.6
10.0	10 ± 0.3
33.0	11 ± 2.5
100.0	7 ± 1.0
333.0	10 ± 2.5
Trial Summary	Negative
Positive Control[2]	117 ± 4.6
Positive Control[3]	

Experiment Number: **944170**

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: **16:24:24**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	5 ± 0.7	5 ± 2.3	6 ± 1.5	9 ± 1.2	9 ± 1.0
1.0		4 ± 0.3		10 ± 0.9	
3.3	6 ± 0.9	4 ± 0.9	7 ± 0.6	7 ± 1.9	3 ± 0.3
10.0	4 ± 0.7	5 ± 0.7	8 ± 0.9	9 ± 2.0	9 ± 2.9
33.0	4 ± 0.9	5 ± 1.2	7 ± 1.5	10 ± 1.0	5 ± 0.0
100.0	3 ± 0.7	3 ± 0.0	5 ± 0.9	7 ± 1.2	8 ± 0.9
333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			226 ± 9.5	122 ± 19.9	158 ± 5.8
Positive Control[4]	794 ± 162.2	507 ± 94.8			

Experiment Number: **944170**

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: **16:24:24**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	10 ± 2.3
1.0	5 ± 1.7
3.3	7 ± 2.3
10.0	13 ± 2.7
33.0	8 ± 2.8
100.0	9 ± 1.2
333.0	
Trial Summary	Negative
Positive Control[2]	71 ± 3.8
Positive Control[4]	

Experiment Number: **944170**

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: **16:24:24**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	16 ± 1.5	22 ± 6.2	23 ± 1.3	22 ± 1.5	21 ± 3.8
3.3	19 ± 1.3	17 ± 4.7	25 ± 2.6	26 ± 3.4	27 ± 1.5
10.0	19 ± 0.6	21 ± 2.6	29 ± 4.7	30 ± 2.0	24 ± 2.5
33.0	13 ± 1.0	17 ± 3.2	32 ± 3.5	32 ± 2.0	25 ± 1.5
100.0	14 ± 0.3	13 ± 3.2	26 ± 1.0	29 ± 3.0	27 ± 2.8
333.0	14 ± 1.8	15 ± 2.3	30 ± 1.3	24 ± 2.6	23 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			1377 ± 61.8	622 ± 110.8	1245 ± 84.6
Positive Control[5]	324 ± 16.9	283 ± 19.2			

Experiment Number: **944170**

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: **16:24:24**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	25 ± 3.6
3.3	24 ± 3.9
10.0	27 ± 1.9
33.0	30 ± 2.6
100.0	28 ± 2.3
333.0	27 ± 1.5
Trial Summary	Negative
Positive Control[2]	542 ± 28.1
Positive Control[5]	

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: 1.0 ug/Plate 2-Aminoanthracene
3: 3.3 ug/Plate Sodium Azide
4: 33.0 ug/Plate 9-Aminoacridine
5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **