Experiment Number: **904370**

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

G06: Ames Summary Data

Test Compound: **2,3,7,8-Tetrachlorodibenzo-p-dioxin**

CAS Number: **1746-01-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:28:20**

NTP Study Number: 904370

Study Result: Negative

Experiment Number: **904370**

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

G06: Ames Summary Data

Test Compound: **2,3,7,8-Tetrachlorodibenzo-p-dioxin**

CAS Number: **1746-01-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:28:20**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	119 ± 4.5	141 ± 10.1	86 ± 2.8	154 ± 9.0	98 ± 6.9
0.1	93 ± 10.0		101 ± 8.7		96 ± 18.2
1.0	83 ± 8.1		96 ± 4.8		94 ± 12.5
10.0	93 ± 5.5	170 ± 14.9	96 ± 8.6	188 ± 7.3	94 ± 4.7
33.0	85 ± 7.0	178 ± 8.6	84 ± 2.0	173 ± 2.0	78 ± 5.5
100.0	98 ± 5.5	162 ± 5.7	94 ± 3.4	195 ± 4.1	103 ± 7.3
333.0		176 ± 0.9		155 ± 4.5	
1000.0		149 ± 7.8		177 ± 6.8	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			867 ± 18.7	853 ± 45.0	1449 ± 87.8
Positive Control[3]	527 ± 7.4	374 ± 21.2			

Experiment Number: **904370**

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

G06: Ames Summary Data

Test Compound: **2,3,7,8-Tetrachlorodibenzo-p-dioxin**

CAS Number: **1746-01-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:28:20**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	155 ± 12.8
0.1	
1.0	
10.0	117 ± 12.3
33.0	117 ± 7.5
100.0	111 ± 0.6
333.0	124 ± 12.4
1000.0	116 ± 9.4
Trial Summary	Negative
Positive Control[2]	1527 ± 66.5
Positive Control[3]	

Experiment Number: **904370**

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

G06: Ames Summary Data

Test Compound: **2,3,7,8-Tetrachlorodibenzo-p-dioxin**

CAS Number: **1746-01-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:28:20**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	16 ± 2.1	13 ± 1.3	15 ± 1.7	8 ± 1.0	12 ± 1.8
0.1	18 ± 2.2		8 ± 0.6		6 ± 0.3
1.0	20 ± 3.5		13 ± 3.2		7 ± 0.6
10.0	20 ± 2.9	15 ± 3.5	8 ± 0.7	11 ± 2.5	6 ± 1.2
33.0	17 ± 1.2	17 ± 0.6	7 ± 0.7	11 ± 3.7	8 ± 1.2
100.0	18 ± 2.3	17 ± 0.7	6 ± 0.9	8 ± 3.4	9 ± 2.0
333.0		18 ± 0.6		7 ± 1.2	
1000.0		18 ± 3.9		8 ± 2.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[3]	494 ± 14.6	308 ± 17.0			
Positive Control[4]			417 ± 26.1	121 ± 14.4	265 ± 12.7

Experiment Number: **904370**

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

G06: Ames Summary Data

Test Compound: **2,3,7,8-Tetrachlorodibenzo-p-dioxin**

CAS Number: **1746-01-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:28:20**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	5 ± 1.0
0.1	
1.0	
10.0	8 ± 0.7
33.0	11 ± 1.2
100.0	8 ± 3.4
333.0	9 ± 3.2
1000.0	8 ± 2.3
Trial Summary	Negative
Positive Control[3]	
Positive Control[4]	242 ± 12.2

Experiment Number: **904370**

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

G06: Ames Summary Data

Test Compound: **2,3,7,8-Tetrachlorodibenzo-p-dioxin**

CAS Number: **1746-01-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:28:20**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	15 ± 2.5	5 ± 1.3	15 ± 1.7	9 ± 1.7	19 ± 1.5
0.1	11 ± 2.3		14 ± 1.2		23 ± 1.7
1.0	11 ± 1.2		16 ± 6.4		14 ± 3.0
10.0	10 ± 1.8	5 ± 0.3	10 ± 2.3	7 ± 0.9	17 ± 1.8
33.0	13 ± 3.1	6 ± 0.0	11 ± 1.5	11 ± 1.0	18 ± 1.2
100.0	10 ± 2.5	7 ± 0.6	15 ± 1.5	4 ± 1.2	13 ± 2.4
333.0		5 ± 0.7		8 ± 1.0	
1000.0		7 ± 2.0		7 ± 1.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]			441 ± 26.9	164 ± 4.2	383 ± 63.4
Positive Control[5]	147 ± 7.5	122 ± 11.1			

Experiment Number: **904370**

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

G06: Ames Summary Data

Test Compound: **2,3,7,8-Tetrachlorodibenzo-p-dioxin**

CAS Number: **1746-01-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:28:20**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	5 ± 0.0
0.1	
1.0	
10.0	5 ± 1.5
33.0	4 ± 0.6
100.0	6 ± 3.0
333.0	8 ± 0.3
1000.0	7 ± 1.5
Trial Summary	Negative
Positive Control[4]	413 ± 22.8
Positive Control[5]	

Experiment Number: **904370**

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

G06: Ames Summary Data

Test Compound: **2,3,7,8-Tetrachlorodibenzo-p-dioxin**

CAS Number: **1746-01-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:28:20**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	21 ± 1.7	19 ± 3.5	46 ± 7.1	24 ± 2.1	33 ± 4.7
0.1	22 ± 2.5		35 ± 4.8		27 ± 6.7
1.0	18 ± 1.5		26 ± 0.3		26 ± 0.9
10.0	16 ± 0.0	22 ± 3.3	21 ± 2.2	27 ± 3.5	27 ± 1.8
33.0	20 ± 3.5	20 ± 4.6	22 ± 3.2	29 ± 2.7	29 ± 2.7
100.0	16 ± 1.9	18 ± 3.7	29 ± 4.0	26 ± 5.8	27 ± 2.7
333.0		18 ± 3.1		21 ± 1.5	
1000.0		18 ± 3.1		26 ± 0.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			636 ± 80.3	384 ± 22.8	1184 ± 18.8
Positive Control[6]	623 ± 85.1	725 ± 32.2			

Experiment Number: **904370**

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

G06: Ames Summary Data

Test Compound: **2,3,7,8-Tetrachlorodibenzo-p-dioxin**

CAS Number: **1746-01-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:28:20**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	21 ± 5.2
0.1	
1.0	
10.0	23 ± 3.6
33.0	28 ± 2.0
100.0	24 ± 3.5
333.0	23 ± 2.2
1000.0	18 ± 2.8
Trial Summary	Negative
Positive Control[2]	1204 ± 10.8
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: 1.0 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate Sodium Azide
4: 2.5 ug/Plate 2-Aminoanthracene
5: 50.0 ug/Plate 9-Aminoacridine
6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **