NTP Study Number: 000928

Study Result: Weakly Positive

Experiment Number: **000928**

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

G06: Ames Summary Data

Test Compound: **Trichlorfon**

CAS Number: **52-68-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:32:42**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	145 ± 10.4	96 ± 9.4	188 ± 1.9	132 ± 19.5	223 ± 3.5
100.0	133 ± 1.7	103 ± 8.1	168 ± 7.9	147 ± 1.0	180 ± 21.4
333.0	143 ± 10.3	122 ± 7.5	213 ± 22.5	149 ± 13.4	225 ± 5.0
1000.0	132 ± 9.1	125 ± 10.5	232 ± 4.7	175 ± 11.0	235 ± 16.5
3333.0	176 ± 5.8	158 ± 19.4	275 ± 10.3	197 ± 3.4	286 ± 3.5
10000.0	241 ± 14.2	191 ± 27.0	291 ± 10.5	221 ± 18.5	353 ± 1.3
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control[2]			1405 ± 77.4	759 ± 92.7	3362 ± 176.8
Positive Control[3]	1882 ± 197.2	1011 ± 6.7			

Experiment Number: **000928**

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

G06: Ames Summary Data

Test Compound: **Trichlorfon**

CAS Number: **52-68-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:32:42**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	140 ± 9.7
100.0	125 ± 7.0
333.0	133 ± 4.2
1000.0	153 ± 8.7
3333.0	193 ± 14.1
10000.0	220 ± 12.2
Trial Summary	Weakly Positive
Positive Control[2]	999 ± 75.6
Positive Control[3]	

Experiment Number: **000928**

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

G06: Ames Summary Data

Test Compound: **Trichlorfon**

CAS Number: **52-68-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:32:42**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	19 ± 1.7	11 ± 1.2	13 ± 1.2	37 ± 5.2	9 ± 1.7
100.0	18 ± 1.7	9 ± 2.5	10 ± 2.7	30 ± 2.3	11 ± 1.5
167.0			8 ± 0.6		
333.0	25 ± 1.8	9 ± 0.6	15 ± 3.5	31 ± 0.9	9 ± 1.5
667.0			14 ± 1.0		
1000.0	29 ± 3.6	11 ± 2.0	15 ± 2.3	38 ± 4.7	9 ± 1.0
1667.0			13 ± 2.1		
3333.0	17 ± 2.6	11 ± 2.3		32 ± 1.8	13 ± 1.7
10000.0	17 ± 2.9	3 ± 1.5		24 ± 1.2	6 ± 2.1
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control[4]				264 ± 19.2	247 ± 19.0
Positive Control[3]	823 ± 68.2	411 ± 14.8	541 ± 15.3		

Experiment Number: **000928**

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

G06: Ames Summary Data

Test Compound: **Trichlorfon**

CAS Number: **52-68-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:32:42**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	27 ± 3.6	11 ± 2.1	11 ± 0.6
100.0	29 ± 1.9	7 ± 1.5	
167.0			19 ± 1.2
333.0	36 ± 1.5	7 ± 0.3	16 ± 2.6
667.0			20 ± 1.9
1000.0	39 ± 1.3	12 ± 1.7	20 ± 2.2
1667.0			19 ± 2.4
3333.0	37 ± 0.7	8 ± 0.9	
10000.0	31 ± 0.9	10 ± 2.3	
Trial Summary	Weakly Positive	Negative	Equivocal
Positive Control[4]	255 ± 15.8	344 ± 14.1	264 ± 13.5
Positive Control[3]			

Experiment Number: **000928**

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

G06: Ames Summary Data

Test Compound: **Trichlorfon**

CAS Number: **52-68-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:32:42**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	14 ± 4.1	5 ± 1.0	22 ± 1.3	8 ± 1.5	21 ± 1.8
33.0		6 ± 0.6			
100.0	18 ± 2.0	5 ± 1.2	21 ± 2.0	8 ± 0.7	18 ± 2.8
333.0	11 ± 2.8	5 ± 0.7	19 ± 1.0	8 ± 0.9	17 ± 2.7
1000.0	13 ± 1.5	7 ± 1.5	17 ± 1.5	11 ± 1.2	17 ± 3.4
3333.0	14 ± 2.6	2 ± 0.3	22 ± 4.3	9 ± 1.2	10 ± 0.9
10000.0	Toxic		11 ± 2.1	7 ± 1.2	12 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]			99 ± 3.0	165 ± 9.8	167 ± 11.3
Positive Control[5]	195 ± 29.9	797 ± 143.9			

Experiment Number: **000928**

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

G06: Ames Summary Data

Test Compound: **Trichlorfon**

CAS Number: **52-68-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:32:42**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	8 ± 2.0
33.0	
100.0	10 ± 1.9
333.0	10 ± 1.2
1000.0	8 ± 2.5
3333.0	7 ± 2.2
10000.0	8 ± 1.2
Trial Summary	Negative
Positive Control[4]	132 ± 3.4
Positive Control[5]	

Experiment Number: **000928**

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

G06: Ames Summary Data

Test Compound: **Trichlorfon**

CAS Number: **52-68-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:32:42**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	28 ± 3.8	15 ± 2.3	35 ± 10.1	23 ± 0.7	35 ± 8.6
100.0	26 ± 3.2	10 ± 3.2	39 ± 1.3	17 ± 2.7	35 ± 4.4
333.0	32 ± 3.2	11 ± 2.4	34 ± 3.7	18 ± 0.3	32 ± 4.8
1000.0	20 ± 3.8	13 ± 0.3	41 ± 2.3	24 ± 1.7	36 ± 2.2
3333.0	20 ± 3.3	12 ± 0.9	38 ± 1.7	24 ± 3.1	27 ± 1.5
10000.0	23 ± 1.8	14 ± 0.6	32 ± 4.2	28 ± 3.2	28 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			973 ± 71.0	437 ± 39.4	2806 ± 109.1
Positive Control[6]	510 ± 6.1	130 ± 21.9			

Experiment Number: **000928**

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

G06: Ames Summary Data

Test Compound: **Trichlorfon**

CAS Number: **52-68-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **23:32:42**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	27 ± 2.5
100.0	18 ± 0.7
333.0	30 ± 5.2
1000.0	24 ± 0.3
3333.0	27 ± 3.0
10000.0	28 ± 3.6
Trial Summary	Negative
Positive Control[2]	590 ± 34.2
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: Water
2: 1.0 ug/Plate 2-Aminoanthracene
3: 3.3 ug/Plate Sodium Azide
4: 2.0 ug/Plate 2-Aminoanthracene
5: 33.0 ug/Plate 9-Aminoacridine
6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **