Experiment Number: **724003**

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

G06: Ames Summary Data

Test Compound: **Chlorambucil**

CAS Number: **305-03-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **19:02:18**

NTP Study Number: 724003

Study Result: Positive

Experiment Number: **724003**

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

G06: Ames Summary Data

Test Compound: **Chlorambucil**

CAS Number: **305-03-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **19:02:18**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	89 ± 9.1	118 ± 10.7	107 ± 9.0	124 ± 5.5	103 ± 1.5
10.0	87 ± 10.6	116 ± 4.7		142 ± 7.3	
33.0	89 ± 0.9	105 ± 4.2	155 ± 16.3	152 ± 18.9	117 ± 3.4
100.0	115 ± 12.4	106 ± 3.9	174 ± 14.1	160 ± 5.4	164 ± 2.3
333.0	112 ± 11.4	105 ± 4.1	152 ± 7.6	209 ± 1.0	141 ± 21.6
1000.0	41 ± 5.1[s]	130 ± 11.0	139 ± 7.5	251 ± 6.0	130 ± 17.0
3333.0			15 ± 8.1[s]		63 ± 32.0[s]
Trial Summary	Negative	Negative	Equivocal	Positive	Equivocal
Positive Control[2]			457 ± 2.3	664 ± 19.7	969 ± 25.8
Positive Control[3]	213 ± 56.1	297 ± 18.2			

Experiment Number: **724003**

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

G06: Ames Summary Data

Test Compound: **Chlorambucil**

CAS Number: **305-03-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **19:02:18**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	114 ± 4.1
10.0	125 ± 2.2
33.0	160 ± 22.3
100.0	156 ± 16.0
333.0	282 ± 8.1
1000.0	307 ± 12.7
3333.0	
Trial Summary	Positive
Positive Control[2]	1641 ± 35.6
Positive Control[3]	

Experiment Number: **724003**

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

G06: Ames Summary Data

Test Compound: **Chlorambucil**

CAS Number: **305-03-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **19:02:18**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	26 ± 0.7	31 ± 4.2	9 ± 2.0	12 ± 2.3	5 ± 0.7
10.0	17 ± 0.9	32 ± 4.1		12 ± 1.8	
33.0	15 ± 1.5	29 ± 1.2	20 ± 3.9	15 ± 0.7	22 ± 2.3
100.0	23 ± 3.5	32 ± 2.3	38 ± 6.4	20 ± 2.2	31 ± 2.7
333.0	25 ± 3.1	34 ± 3.2	55 ± 11.0	43 ± 6.9	59 ± 8.0
1000.0	13 ± 3.2	29 ± 4.7	33 ± 9.3	93 ± 9.5	54 ± 6.7
3333.0			35 ± 34.7[s]		33 ± 9.6[s]
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control[3]	324 ± 2.3	355 ± 40.6			
Positive Control[4]			194 ± 5.7	131 ± 6.9	431 ± 19.8

Experiment Number: **724003**

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

G06: Ames Summary Data

Test Compound: **Chlorambucil**

CAS Number: **305-03-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **19:02:18**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	9 ± 1.7
10.0	10 ± 3.2
33.0	20 ± 0.7
100.0	30 ± 7.2
333.0	118 ± 14.4
1000.0	165 ± 16.7
3333.0	
Trial Summary	Positive
Positive Control[3]	
Positive Control[4]	407 ± 12.2

Experiment Number: **724003**

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

G06: Ames Summary Data

Test Compound: **Chlorambucil**

CAS Number: **305-03-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **19:02:18**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	6 ± 0.3	6 ± 1.2	7 ± 0.3	11 ± 1.0	6 ± 1.3
10.0	5 ± 0.0	4 ± 0.7		6 ± 1.2	
33.0	2 ± 0.3	7 ± 0.7	4 ± 0.7	7 ± 2.7	10 ± 2.2
100.0	4 ± 0.6	4 ± 0.9	6 ± 1.2	7 ± 2.7	5 ± 0.6
333.0	4 ± 1.0	3 ± 0.3	7 ± 0.7	5 ± 1.2	6 ± 1.2
1000.0	4 ± 0.6	7 ± 1.2	2 ± 0.6[s]	4 ± 0.3	8 ± 1.3
3333.0			3 ± 1.3[s]		6 ± 0.9[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]			106 ± 24.2	163 ± 7.4	307 ± 12.8
Positive Control[5]	179 ± 10.7	113 ± 10.8			

Experiment Number: **724003**

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

G06: Ames Summary Data

Test Compound: **Chlorambucil**

CAS Number: **305-03-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **19:02:18**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	4 ± 1.7
10.0	7 ± 3.0
33.0	6 ± 1.5
100.0	4 ± 1.5
333.0	5 ± 1.3
1000.0	4 ± 2.2
3333.0	
Trial Summary	Negative
Positive Control[4]	396 ± 9.5
Positive Control[5]	

Experiment Number: **724003**

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

G06: Ames Summary Data

Test Compound: **Chlorambucil**

CAS Number: **305-03-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **19:02:18**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	12 ± 0.9	16 ± 4.2	35 ± 3.5	32 ± 8.4	23 ± 2.7
10.0	15 ± 1.5	18 ± 2.5		29 ± 5.2	
33.0	15 ± 4.0	15 ± 0.7	24 ± 2.0	29 ± 1.5	29 ± 4.9
100.0	12 ± 2.0	13 ± 0.7	27 ± 1.0	32 ± 3.2	28 ± 2.6
333.0	13 ± 0.9	14 ± 2.7	24 ± 2.6	36 ± 4.0	25 ± 2.1
1000.0	5 ± 0.6	17 ± 2.4	15 ± 0.9	29 ± 5.3	14 ± 2.8[s]
3333.0			3 ± 1.7[s]		3 ± 2.7[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			242 ± 6.1	479 ± 43.6	931 ± 33.2
Positive Control[6]	394 ± 26.0	282 ± 21.4			

Experiment Number: **724003**

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

G06: Ames Summary Data

Test Compound: **Chlorambucil**

CAS Number: **305-03-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **19:02:18**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	31 ± 5.7
10.0	34 ± 3.2
33.0	43 ± 3.1
100.0	33 ± 1.8
333.0	38 ± 4.8
1000.0	28 ± 5.6
3333.0	
Trial Summary	Negative
Positive Control[2]	1300 ± 95.3
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: 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
s: Slight Toxicity

** END OF REPORT **