NTP Study Number:	219993
Study Result:	Positive

Experiment Number: **219993**

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

G06: Ames Summary Data

Test Compound: **Dimethylcarbamoyl chloride**

CAS Number: **79-44-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **21:20:15**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	122 ± 12.7	79 ± 6.4	135 ± 3.8	114 ± 4.2	130 ± 3.5
10.0		90 ± 8.2		130 ± 4.4	
33.3	167 ± 7.2		176 ± 6.1		188 ± 7.8
100.0		155 ± 19.3		179 ± 14.6	
333.3	382 ± 17.2	206 ± 18.5	411 ± 49.1	322 ± 28.0	368 ± 18.9
1000.0	763 ± 41.9	454 ± 45.1	939 ± 55.7	632 ± 23.6	684 ± 50.6
3333.3	1080 ± 58.7	747 ± 53.2	1247 ± 121.1	872 ± 37.2	981 ± 47.2
10000.0	969 ± 71.5		1097 ± 166.8		831 ± 34.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[2]			997 ± 34.8	305 ± 7.0	2304 ± 86.7
Positive Control[3]	521 ± 13.7	404 ± 11.8			

Experiment Number: **219993**

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

G06: Ames Summary Data

Test Compound: **Dimethylcarbamoyl chloride**

CAS Number: **79-44-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **21:20:15**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	154 ± 13.1
10.0	125 ± 13.9
33.3	
100.0	186 ± 12.8
333.3	290 ± 20.6
1000.0	565 ± 29.5
3333.3	752 ± 62.6
10000.0	
Trial Summary	Positive
Positive Control[2]	908 ± 11.0
Positive Control[3]	

Experiment Number: **219993**

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

G06: Ames Summary Data

Test Compound: **Dimethylcarbamoyl chloride**

CAS Number: **79-44-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **21:20:15**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	15 ± 1.9	15 ± 0.3	12 ± 1.5	13 ± 3.1	11 ± 3.5
10.0		23 ± 2.5		18 ± 1.2	
33.3	50 ± 5.0		89 ± 12.3		38 ± 3.8
100.0		49 ± 3.8		88 ± 4.6	
333.3	204 ± 13.4	110 ± 24.7	451 ± 43.5	197 ± 7.5	220 ± 40.9
1000.0	714 ± 22.2	269 ± 6.6	859 ± 37.3	460 ± 14.2	577 ± 6.4
3333.3	965 ± 26.0	619 ± 43.9	1286 ± 69.2	852 ± 36.5	944 ± 88.6
10000.0	928 ± 24.5		1251 ± 48.3		858 ± 12.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[3]	394 ± 18.9	312 ± 4.4			
Positive Control[4]			246 ± 8.5	228 ± 3.8	246 ± 7.2

Experiment Number: **219993**

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

G06: Ames Summary Data

Test Compound: **Dimethylcarbamoyl chloride**

CAS Number: **79-44-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **21:20:15**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	11 ± 0.9
10.0	18 ± 3.0
33.3	
100.0	38 ± 3.3
333.3	172 ± 16.7
1000.0	441 ± 55.8
3333.3	649 ± 97.8
10000.0	
Trial Summary	Positive
Positive Control[3]	
Positive Control[4]	360 ± 4.5

Experiment Number: **219993**

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

G06: Ames Summary Data

Test Compound: **Dimethylcarbamoyl chloride**

CAS Number: **79-44-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **21:20:15**

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 ± 1.7	6 ± 0.3	6 ± 1.2	10 ± 1.2	8 ± 1.3
33.3	4 ± 0.6		11 ± 2.2		7 ± 1.3
333.3	7 ± 0.9	5 ± 1.2	11 ± 0.9	17 ± 0.6	11 ± 3.0
1000.0	8 ± 1.8	8 ± 2.5	12 ± 2.0	36 ± 2.5	7 ± 1.2
3333.3	16 ± 1.5	10 ± 1.0	22 ± 2.2	48 ± 4.3	14 ± 1.2
6666.7		11 ± 1.7		34 ± 3.8	
10000.0	27 ± 3.8	12 ± 4.4	28 ± 1.8	46 ± 2.4	25 ± 2.4
Trial Summary	Weakly Positive	Negative	Positive	Positive	Equivocal
Positive Control[4]			239 ± 24.6	154 ± 5.1	411 ± 10.3
Positive Control[5]	847 ± 54.3	152 ± 13.7			

Experiment Number: **219993**

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

G06: Ames Summary Data

Test Compound: **Dimethylcarbamoyl chloride**

CAS Number: **79-44-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **21:20:15**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	12 ± 1.5
33.3	
333.3	15 ± 1.2
1000.0	22 ± 3.0
3333.3	26 ± 4.7
6666.7	29 ± 4.4
10000.0	41 ± 2.6
Trial Summary	Positive
Positive Control[4]	397 ± 12.0
Positive Control[5]	

Experiment Number: **219993**

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

G06: Ames Summary Data

Test Compound: **Dimethylcarbamoyl chloride**

CAS Number: **79-44-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **21:20:15**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	18 ± 0.6	17 ± 2.6	18 ± 2.3	22 ± 2.1	23 ± 1.8
33.3	13 ± 2.0		33 ± 4.7		20 ± 2.0
333.3	20 ± 3.7	18 ± 1.5	38 ± 3.8	27 ± 5.2	27 ± 5.5
1000.0	25 ± 2.6	24 ± 6.5	47 ± 5.7	30 ± 2.8	22 ± 3.2
3333.3	30 ± 7.0	44 ± 4.4	46 ± 6.8	45 ± 4.5	33 ± 1.3
6666.7		45 ± 1.7		43 ± 4.2	
10000.0	32 ± 2.3	63 ± 6.7	56 ± 16.7	48 ± 9.2	34 ± 7.0
Trial Summary	Equivocal	Positive	Positive	Weakly Positive	Negative
Positive Control[2]			249 ± 26.4	115 ± 8.2	823 ± 92.0
Positive Control[6]	714 ± 5.7	675 ± 61.2			

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	32 ± 7.0
33.3	
333.3	37 ± 0.9
1000.0	38 ± 3.3
3333.3	45 ± 4.2
6666.7	47 ± 2.9
10000.0	65 ± 7.5
Trial Summary	Equivocal
Positive Control[2]	426 ± 10.5
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 **