

Experiment Number: A85398

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

G06: Ames Summary Data

Test Compound: **Ammonium perchlorate**

CAS Number: **7790-98-9**

Date Report Requested: **09/18/2018**

Time Report Requested: **04:22:49**

NTP Study Number:

A85398

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Ammonium perchlorate

CAS Number: 7790-98-9

Date Report Requested: 09/18/2018

Time Report Requested: 04:22:49

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	155 ± 5.2	128 ± 2.2	126 ± 7.3	147 ± 3.8	125 ± 13.7
100.0	152 ± 3.2	121 ± 6.5	131 ± 3.5	161 ± 3.8	128 ± 0.6
333.0	155 ± 3.5	124 ± 4.0	122 ± 3.3	151 ± 8.1	132 ± 4.9
1000.0	163 ± 4.7	128 ± 13.8	133 ± 6.2	148 ± 6.0	133 ± 4.5
3333.0	147 ± 7.2	132 ± 4.8	135 ± 11.9	159 ± 2.6	121 ± 2.6
10000.0	157 ± 14.1	126 ± 6.1	126 ± 2.9	146 ± 4.9	119 ± 4.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					629 ± 9.2
Positive Control ³			540 ± 14.8		
Positive Control ⁴	928 ± 7.2	937 ± 18.8			
Positive Control ⁵				657 ± 20.5	

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Date Report Requested: 09/18/2018
Time Report Requested: 04:22:49

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	173 ± 4.6
100.0	161 ± 10.0
333.0	155 ± 13.8
1000.0	164 ± 3.0
3333.0	172 ± 8.6
10000.0	170 ± 5.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	722 ± 12.4
Positive Control ⁴	
Positive Control ⁵	

Experiment Number: A85398

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CAS Number: 7790-98-9

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.2	9 ± 1.8	15 ± 1.5	11 ± 1.5	16 ± 3.2
100.0	13 ± 0.6	9 ± 1.8	16 ± 0.9	15 ± 2.7	13 ± 3.5
333.0	10 ± 1.3	14 ± 1.9	9 ± 2.1	12 ± 0.3	11 ± 0.9
1000.0	10 ± 1.2	10 ± 1.5	11 ± 0.7	11 ± 0.0	13 ± 0.6
3333.0	13 ± 3.3	12 ± 1.2	12 ± 1.7	13 ± 1.9	10 ± 1.5
10000.0	10 ± 0.6	10 ± 1.9	10 ± 1.7	8 ± 0.0	12 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					152 ± 8.7
Positive Control ⁴	835 ± 18.2	856 ± 11.6			
Positive Control ⁵			137 ± 8.7		
Positive Control ⁶				110 ± 6.7	

Experiment Number: A85398
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Mutagenicity

G06: Ames Summary Data
Test Compound: Ammonium perchlorate
CAS Number: 7790-98-9

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.8
100.0	10 ± 0.7
333.0	14 ± 3.2
1000.0	12 ± 0.9
3333.0	12 ± 0.9
10000.0	9 ± 0.9
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	131 ± 8.4
Positive Control ⁶	

Experiment Number: A85398

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ammonium perchlorate

CAS Number: 7790-98-9

Date Report Requested: 09/18/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	121 ± 3.7	135 ± 16.4	157 ± 13.7	158 ± 14.9	178 ± 12.9
100.0	130 ± 9.3	141 ± 9.1	167 ± 4.9	179 ± 6.2	182 ± 7.0
333.0	131 ± 16.8	132 ± 7.9	153 ± 10.5	174 ± 14.5	170 ± 4.0
1000.0	140 ± 7.4	161 ± 3.7	149 ± 8.1	168 ± 5.8	162 ± 6.4
3333.0	134 ± 5.5	164 ± 8.5	154 ± 16.5	173 ± 13.8	153 ± 12.7
10000.0	124 ± 4.0	122 ± 6.3	143 ± 11.3	167 ± 5.2	177 ± 12.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					513 ± 183.0
Positive Control ³			656 ± 10.0		
Positive Control ⁵				517 ± 8.2	
Positive Control ⁷	508 ± 20.7	553 ± 21.5			

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G06: Ames Summary Data
Test Compound: Ammonium perchlorate
CAS Number: 7790-98-9

Date Report Requested: 09/18/2018
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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	168 ± 14.6
100.0	183 ± 3.4
333.0	172 ± 7.0
1000.0	191 ± 3.1
3333.0	192 ± 0.9
10000.0	131 ± 9.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	592 ± 13.0
Positive Control ⁵	
Positive Control ⁷	

Experiment Number: A85398

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ammonium perchlorate

CAS Number: 7790-98-9

Date Report Requested: 09/18/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 4.1	24 ± 3.0	27 ± 3.8	24 ± 1.3	25 ± 3.8
100.0	17 ± 1.7	29 ± 5.9	32 ± 3.2	23 ± 2.4	35 ± 3.3
333.0	17 ± 0.9	21 ± 3.8	29 ± 0.9	24 ± 3.0	26 ± 2.8
1000.0	23 ± 2.3	24 ± 0.3	22 ± 0.7	21 ± 2.0	23 ± 1.2
3333.0	18 ± 3.5	21 ± 1.5	35 ± 3.8	20 ± 3.1	30 ± 2.0
10000.0	18 ± 4.4	26 ± 3.3	29 ± 2.6	19 ± 0.3	27 ± 4.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					543 ± 12.9
Positive Control ³			466 ± 18.2		
Positive Control ⁸	355 ± 17.6	362 ± 7.7			
Positive Control ⁵				536 ± 45.1	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 1.8
100.0	22 ± 2.1
333.0	20 ± 2.5
1000.0	21 ± 4.6
3333.0	17 ± 3.8
10000.0	20 ± 4.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	545 ± 16.9
Positive Control ⁸	
Positive Control ⁵	

Experiment Number: A85398

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G06: Ames Summary Data

Test Compound: Ammonium perchlorate

CAS Number: 7790-98-9

Date Report Requested: 09/18/2018

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	163 ± 12.1	205 ± 13.7	274 ± 29.3	281 ± 8.4	312 ± 14.8
100.0	182 ± 8.2	207 ± 25.0	302 ± 9.5	275 ± 11.0	319 ± 17.1
333.0	174 ± 4.5	220 ± 14.2	306 ± 14.7	262 ± 5.8	316 ± 10.5
1000.0	161 ± 3.3	232 ± 7.8	296 ± 9.0	276 ± 10.4	287 ± 25.2
3333.0	182 ± 6.0	216 ± 9.5	271 ± 7.3	265 ± 23.7	291 ± 10.0
10000.0	176 ± 10.2	190 ± 31.2	280 ± 24.8	270 ± 4.1	317 ± 7.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	751 ± 27.7	739 ± 17.1			
Positive Control ⁶			1043 ± 52.0	942 ± 18.1	1182 ± 17.9

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CAS Number: 7790-98-9

Date Report Requested: 09/18/2018
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Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	269 ± 10.5
100.0	270 ± 21.1
333.0	257 ± 16.5
1000.0	265 ± 15.3
3333.0	240 ± 18.7
10000.0	256 ± 16.3
Trial Summary	Negative
Positive Control ⁹	
Positive Control ⁶	1049 ± 44.5

Experiment Number: A85398

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Ammonium perchlorate

CAS Number: 7790-98-9

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	247 ± 12.7	317 ± 20.7	422 ± 23.6	334 ± 17.3	436 ± 12.4
100.0	280 ± 9.7	341 ± 17.6	404 ± 16.7	310 ± 11.3	439 ± 18.7
333.0	254 ± 26.3	318 ± 18.8	426 ± 8.2	344 ± 17.6	374 ± 60.4
1000.0	250 ± 17.7	326 ± 7.2	451 ± 13.2	350 ± 21.6	426 ± 15.1
3333.0	272 ± 15.1	338 ± 19.3	413 ± 18.6	344 ± 27.6	424 ± 12.7
10000.0	254 ± 12.5	341 ± 17.8	450 ± 9.8	331 ± 12.3	442 ± 15.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶			962 ± 18.6	1225 ± 33.9	1200 ± 25.9
Positive Control ¹⁰	847 ± 25.7	843 ± 28.0			

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	334 ± 15.7
100.0	344 ± 21.5
333.0	373 ± 8.7
1000.0	385 ± 9.3
3333.0	351 ± 13.7
10000.0	341 ± 19.0
Trial Summary	Negative
Positive Control ⁶	1260 ± 12.5
Positive Control ¹⁰	

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LEGEND

Values given as Mean or Mean \pm 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: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- 9: 0.5 ug/Plate Mitomycin-C
- 10: 250.0 ug/Plate Methyl Methane Sulfonate

** END OF REPORT **