

Experiment Number: 098663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl-2,5-bis(tert-butylperoxy)hexane

CAS Number: 78-63-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:04:36

NTP Study Number:

098663

Study Result:

Negative

Experiment Number: 098663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl-2,5-bis(tert-butylperoxy)hexane
CAS Number: 78-63-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:04:36

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	100 ± 2.3	113 ± 1.2	93 ± 3.6	106 ± 12.9	97 ± 5.4
100.0	90 ± 13.3	102 ± 1.7	110 ± 5.2	129 ± 10.0	85 ± 9.4
333.0	98 ± 7.5	101 ± 13.1	99 ± 10.2	101 ± 18.9	96 ± 13.6
1000.0	85 ± 6.6	98 ± 2.0	114 ± 7.9	126 ± 13.7	93 ± 12.6
3333.0	81 ± 4.7	92 ± 3.9	107 ± 2.6	118 ± 6.4	102 ± 10.9
10000.0	82 ± 13.2	96 ± 6.0	104 ± 15.2	123 ± 11.8	101 ± 3.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	203 ± 11.8	260 ± 16.7			
Positive Control ³			437 ± 84.7	282 ± 15.3	784 ± 10.5

Experiment Number: 098663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl-2,5-bis(tert-butylperoxy)hexane

CAS Number: 78-63-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:04:36

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	110 ± 11.0
100.0	97 ± 2.0
333.0	86 ± 4.4
1000.0	93 ± 4.2
3333.0	100 ± 4.9
10000.0	94 ± 4.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	678 ± 13.1

Experiment Number: 098663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl-2,5-bis(tert-butylperoxy)hexane
CAS Number: 78-63-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:04:36

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.5	29 ± 5.7	10 ± 2.0	13 ± 2.6	7 ± 0.7
100.0	11 ± 1.5	29 ± 7.5	8 ± 2.0	6 ± 1.2	8 ± 2.4
333.0	17 ± 5.0	37 ± 0.3	10 ± 1.8	8 ± 1.3	8 ± 0.9
1000.0	18 ± 3.8	28 ± 3.7	11 ± 2.7	8 ± 2.0	6 ± 0.6
3333.0	16 ± 2.2	35 ± 3.5	11 ± 1.3	15 ± 1.5	6 ± 1.0
10000.0	14 ± 2.9	31 ± 7.0	13 ± 0.4	13 ± 1.2	7 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	193 ± 3.9	144 ± 21.4			
Positive Control ⁴			160 ± 7.9	170 ± 15.1	363 ± 33.9

Experiment Number: 098663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl-2,5-bis(tert-butylperoxy)hexane

CAS Number: 78-63-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:04:36

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 0.9
100.0	41 ± 34.4
333.0	9 ± 3.6
1000.0	13 ± 3.0
3333.0	12 ± 3.2
10000.0	12 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	987 ± 26.4

Experiment Number: 098663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl-2,5-bis(tert-butylperoxy)hexane
CAS Number: 78-63-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:04:36

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	125 ± 4.7	133 ± 7.1	140 ± 29.0	202 ± 4.7	219 ± 0.7
100.0	147 ± 8.4	174 ± 9.3	146 ± 17.2	201 ± 14.3	207 ± 10.0
333.0	146 ± 13.0	164 ± 6.5	130 ± 10.5	202 ± 7.5	201 ± 5.5
1000.0	148 ± 8.0	158 ± 10.0	144 ± 19.5	208 ± 6.1	203 ± 18.3
3333.0	151 ± 9.7	156 ± 10.4	153 ± 13.2	205 ± 12.7	223 ± 13.5
10000.0	175 ± 12.7	162 ± 25.2	162 ± 21.0	229 ± 3.8	218 ± 15.5
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁴				958 ± 59.2	432 ± 40.7
Positive Control ⁵	617 ± 51.0	472 ± 4.5	580 ± 82.5		

Experiment Number: 098663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl-2,5-bis(tert-butylperoxy)hexane
CAS Number: 78-63-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:04:36

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	177 ± 9.3	178 ± 24.8
100.0	208 ± 12.9	163 ± 2.7
333.0	205 ± 17.6	193 ± 8.8
1000.0	218 ± 11.5	165 ± 16.1
3333.0	218 ± 4.9	178 ± 13.0
10000.0	214 ± 19.2	187 ± 20.8
Trial Summary	Negative	Negative
Positive Control ⁴	1423 ± 80.6	1036 ± 32.9
Positive Control ⁵		

Experiment Number: 098663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl-2,5-bis(tert-butylperoxy)hexane

CAS Number: 78-63-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:04:36

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	14 ± 3.5	18 ± 3.6	16 ± 2.2	28 ± 7.2	32 ± 2.8
100.0	16 ± 2.3	18 ± 1.5	15 ± 3.2	24 ± 4.4	22 ± 1.2
333.0	15 ± 0.9	25 ± 2.4	17 ± 0.9	23 ± 1.7	29 ± 3.5
1000.0	12 ± 2.6	18 ± 2.4	14 ± 2.0	22 ± 2.7	31 ± 4.0
3333.0	17 ± 1.7	23 ± 4.7	17 ± 1.2	23 ± 2.4	23 ± 3.1
10000.0	23 ± 2.1	35 ± 5.0	15 ± 4.4	25 ± 3.0	26 ± 2.0
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control ³				310 ± 24.6	210 ± 11.6
Positive Control ⁶	554 ± 24.5	870 ± 28.4	559 ± 40.3		

Experiment Number: 098663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl-2,5-bis(tert-butylperoxy)hexane
CAS Number: 78-63-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:04:36

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	27 ± 4.9	28 ± 4.7
100.0	19 ± 1.5	26 ± 3.5
333.0	22 ± 3.2	24 ± 3.8
1000.0	21 ± 4.6	30 ± 3.5
3333.0	25 ± 2.3	25 ± 4.3
10000.0	24 ± 2.5	27 ± 4.3
Trial Summary	Negative	Negative
Positive Control ³	702 ± 25.8	472 ± 21.0
Positive Control ⁶		

Experiment Number: 098663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl-2,5-bis(tert-butylperoxy)hexane

CAS Number: 78-63-7

Date Report Requested: 09/11/2018

Time Report Requested: 13:04:36

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: Dimethyl Sulfoxide

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

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 ****