Experiment Number: **164625**

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

G06: Ames Summary Data

Test Compound: **2,3-Dibromo-2-butene-1,4-diol**

CAS Number: **3234-02-4**

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

Time Report Requested: **21:33:46**

NTP Study Number: 164625

Study Result: Positive

Experiment Number: **164625**

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

G06: Ames Summary Data

Test Compound: **2,3-Dibromo-2-butene-1,4-diol**

CAS Number: **3234-02-4**

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

Time Report Requested: **21:33:46**

Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	108 ± 4.6	103 ± 4.2	115 ± 4.3	100 ± 2.9	87 ± 3.1
10.0					111 ± 6.9
33.0					142 ± 6.2
100.0	129 ± 14.6	126 ± 6.7	103 ± 7.4	311 ± 17.3	191 ± 9.0
333.0	134 ± 9.8	180 ± 4.7	100 ± 0.3	729 ± 29.9	508 ± 43.2
1000.0	121 ± 3.7	382 ± 4.5	208 ± 10.4	1607 ± 17.7	1449 ± 80.2
3333.0	123 ± 20.7	854 ± 34.9	308 ± 2.5		
10000.0	141 ± 14.4	1621 ± 76.1	441 ± 15.9		
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control[2]		363 ± 25.6	690 ± 18.0	874 ± 38.9	1133 ± 39.7
Positive Control[3]	343 ± 17.3				

Experiment Number: **164625**

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

G06: Ames Summary Data

Test Compound: **2,3-Dibromo-2-butene-1,4-diol**

CAS Number: **3234-02-4**

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

Time Report Requested: **21:33:46**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	38 ± 7.6	14 ± 1.9	7 ± 1.9	13 ± 2.6	6 ± 0.3
10.0					10 ± 1.9
33.0					14 ± 0.6
100.0	39 ± 5.9	15 ± 1.7	9 ± 0.9	57 ± 5.7	36 ± 2.6
333.0	40 ± 6.1	26 ± 7.3	9 ± 0.3	203 ± 20.9	112 ± 13.3
1000.0	34 ± 3.3	82 ± 10.7	27 ± 0.9	488 ± 104.1	316 ± 26.0
3333.0	42 ± 4.1	179 ± 5.5	54 ± 12.3	917 ± 30.4	
10000.0	42 ± 1.7	356 ± 55.8	149 ± 16.6	286 ± 144.3[s]	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control[3]	351 ± 29.4				
Positive Control[4]		209 ± 13.0	114 ± 14.3	307 ± 11.3	452 ± 9.8

Experiment Number: **164625**

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

G06: Ames Summary Data

Test Compound: **2,3-Dibromo-2-butene-1,4-diol**

CAS Number: **3234-02-4**

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

Time Report Requested: **21:33:46**

Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	6 ± 1.2	6 ± 0.3	6 ± 1.2	7 ± 2.7	5 ± 0.9
100.0	8 ± 1.9	11 ± 1.2			9 ± 3.4
333.0	10 ± 2.1	10 ± 2.1	5 ± 1.7	6 ± 0.6	13 ± 2.4
1000.0	10 ± 1.2	10 ± 3.7	7 ± 1.3	7 ± 0.9	15 ± 0.7
1666.0					
3333.0	6 ± 0.6	15 ± 1.7	8 ± 2.1	7 ± 0.3	59 ± 5.8
6666.0			9 ± 2.0	5 ± 0.3	
10000.0	9 ± 1.7	17 ± 2.4	7 ± 0.9	10 ± 3.0	42 ± 7.7
Trial Summary	Negative	Equivocal	Negative	Negative	Positive
Positive Control[4]		138 ± 12.7	234 ± 15.6	154 ± 23.7	367 ± 29.4
Positive Control[5]	298 ± 120.8				

Experiment Number: **164625**

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

G06: Ames Summary Data

Test Compound: **2,3-Dibromo-2-butene-1,4-diol**

CAS Number: **3234-02-4**

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

Time Report Requested: **21:33:46**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	9 ± 1.5
100.0	6 ± 0.9
333.0	9 ± 2.0
1000.0	22 ± 4.5
1666.0	20 ± 3.0
3333.0	40 ± 6.0
6666.0	
10000.0	
Trial Summary	Positive
Positive Control[4]	383 ± 15.5
Positive Control[5]	

Experiment Number: **164625**

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

G06: Ames Summary Data

Test Compound: **2,3-Dibromo-2-butene-1,4-diol**

CAS Number: **3234-02-4**

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

Time Report Requested: **21:33:46**

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	19 ± 2.7	33 ± 3.5	17 ± 1.3	15 ± 1.9	24 ± 4.1
100.0	14 ± 1.5	35 ± 3.3			29 ± 8.7
333.0	16 ± 1.9	33 ± 1.3	12 ± 1.7	26 ± 4.4	38 ± 4.6
1000.0	14 ± 4.4	34 ± 7.0	12 ± 0.9	24 ± 5.1	90 ± 5.2
1666.0					
3333.0	13 ± 1.3	43 ± 3.2	21 ± 3.5	33 ± 4.9	248 ± 15.5
6666.0			17 ± 2.3	46 ± 4.7	
10000.0	17 ± 5.3	78 ± 6.4	24 ± 1.2	54 ± 2.8	206 ± 39.2
Trial Summary	Negative	Equivocal	Negative	Positive	Positive
Positive Control[2]		342 ± 10.4	325 ± 23.3	354 ± 30.5	754 ± 48.9
Positive Control[6]	496 ± 50.1				

Experiment Number: **164625**

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

G06: Ames Summary Data

Test Compound: **2,3-Dibromo-2-butene-1,4-diol**

CAS Number: **3234-02-4**

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

Time Report Requested: **21:33:46**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	19 ± 0.9
100.0	17 ± 1.5
333.0	17 ± 0.7
1000.0	53 ± 8.7
1666.0	66 ± 11.7
3333.0	101 ± 14.2
6666.0	
10000.0	
Trial Summary	Positive
Positive Control[2]	383 ± 22.4
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 **