

Experiment Number: **315373**

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

G06: Ames Summary Data

Test Compound: **C.I. Direct brown 2**

CAS Number: **2429-82-5**

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

Time Report Requested: **04:26:23**

NTP Study Number:

315373

Study Result:

Equivocal

Experiment Number: 315373

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct brown 2

CAS Number: 2429-82-5

Date Report Requested: 09/12/2018

Time Report Requested: 04:26:23

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	96 ± 5.2	97 ± 2.1	108 ± 2.9	89 ± 7.0	104 ± 4.2
33.0	100 ± 10.9	98 ± 5.0			
100.0	95 ± 3.5 ^p	83 ± 2.3 ^p	111 ± 1.8 ^p	109 ± 4.3	90 ± 6.9 ^p
333.0	106 ± 2.0 ^p	94 ± 7.5 ^p	109 ± 4.6 ^p	92 ± 3.2 ^p	110 ± 3.5 ^p
1000.0	92 ± 9.0 ^p	91 ± 11.8 ^p	122 ± 11.0 ^p	107 ± 1.2 ^p	112 ± 13.0 ^p
3333.0	88 ± 7.0 ^p	70 ± 7.2 ^p	97 ± 5.5 ^p	96 ± 5.6 ^p	100 ± 7.2 ^p
10000.0			61 ± 7.2 ^p	72 ± 6.0 ^p	69 ± 8.4 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1456 ± 35.4	407 ± 7.3	1526 ± 39.4
Positive Control ³	285 ± 6.8	217 ± 14.4			

Experiment Number: 315373

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

G06: Ames Summary Data

Test Compound: **C.I. Direct brown 2**

CAS Number: **2429-82-5**

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

Time Report Requested: **04:26:23**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	91 ± 6.7
33.0	
100.0	104 ± 4.7
333.0	99 ± 8.4 ^p
1000.0	111 ± 6.2 ^p
3333.0	106 ± 3.8 ^p
10000.0	76 ± 4.4 ^p
Trial Summary	Negative
Positive Control ²	983 ± 51.8
Positive Control ³	

Experiment Number: 315373

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct brown 2

CAS Number: 2429-82-5

Date Report Requested: 09/12/2018

Time Report Requested: 04:26:23

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 2.4	25 ± 2.9	5 ± 0.0	7 ± 0.6	7 ± 0.7
33.0	26 ± 6.7	18 ± 3.3			
100.0	24 ± 5.0 ^p	18 ± 0.0 ^p	6 ± 0.7 ^p	7 ± 2.3	8 ± 1.2 ^p
333.0	24 ± 4.6 ^p	16 ± 2.4 ^p	12 ± 0.9 ^p	9 ± 1.7 ^p	7 ± 1.5 ^p
1000.0	20 ± 3.5 ^p	12 ± 3.3 ^p	7 ± 0.0 ^p	7 ± 1.2 ^p	9 ± 0.7 ^p
3333.0	15 ± 2.4 ^p	6 ± 1.0 ^p	8 ± 1.5 ^p	7 ± 1.2 ^p	13 ± 1.5 ^p
10000.0			7 ± 2.3 ^p	6 ± 1.5 ^p	6 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	327 ± 8.2	276 ± 25.4			
Positive Control ⁴			444 ± 25.2	182 ± 13.1	512 ± 24.7

Experiment Number: 315373

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct brown 2

CAS Number: 2429-82-5

Date Report Requested: 09/12/2018

Time Report Requested: 04:26:23

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.5
33.0	
100.0	7 ± 1.7
333.0	6 ± 0.6 ^p
1000.0	6 ± 0.3 ^p
3333.0	6 ± 1.5 ^p
10000.0	6 ± 1.5 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	359 ± 14.4

Experiment Number: 315373

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct brown 2

CAS Number: 2429-82-5

Date Report Requested: 09/12/2018

Time Report Requested: 04:26:23

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 ± 1.0	7 ± 0.6	6 ± 0.6	5 ± 0.3	7 ± 1.2
33.0	5 ± 1.2	6 ± 2.1			
100.0	8 ± 2.4 ^p	4 ± 1.0 ^p	9 ± 1.0 ^p	10 ± 1.2	9 ± 2.0 ^p
333.0	6 ± 0.3 ^p	5 ± 2.2 ^p	5 ± 1.5 ^p	8 ± 2.0 ^p	12 ± 1.8 ^p
1000.0	5 ± 0.9 ^p	5 ± 1.5 ^p	9 ± 0.3 ^p	7 ± 0.3 ^p	9 ± 1.3 ^p
3333.0	5 ± 1.5 ^p	3 ± 0.3 ^p	5 ± 0.0 ^p	5 ± 1.0 ^p	5 ± 0.3 ^p
10000.0			4 ± 0.3 ^p	5 ± 1.3 ^p	5 ± 1.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			423 ± 21.2	139 ± 18.6	473 ± 6.7
Positive Control ⁵	161 ± 18.4	155 ± 12.1			

Experiment Number: 315373

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct brown 2

CAS Number: 2429-82-5

Date Report Requested: 09/12/2018

Time Report Requested: 04:26:23

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 1.9
33.0	
100.0	5 ± 1.5
333.0	10 ± 2.6 ^p
1000.0	10 ± 0.7 ^p
3333.0	6 ± 2.3 ^p
10000.0	5 ± 1.2 ^p
Trial Summary	Negative
Positive Control ⁴	292 ± 10.3
Positive Control ⁵	

Experiment Number: 315373

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct brown 2

CAS Number: 2429-82-5

Date Report Requested: 09/12/2018

Time Report Requested: 04:26:23

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	17 ± 0.3	22 ± 1.2	31 ± 5.2	19 ± 0.0	27 ± 1.7
33.0	16 ± 2.9	15 ± 1.8			25 ± 4.2
100.0	15 ± 1.2 ^p	15 ± 0.7 ^p	29 ± 3.2 ^p	30 ± 5.2	35 ± 7.9 ^p
333.0	12 ± 0.9 ^p	21 ± 2.7 ^p	38 ± 1.2 ^p	31 ± 1.2 ^p	39 ± 4.7 ^p
1000.0	11 ± 1.5 ^p	16 ± 2.1 ^p	25 ± 0.6 ^p	48 ± 0.9 ^p	29 ± 1.7 ^p
3333.0	16 ± 1.7 ^p	13 ± 1.8 ^p	15 ± 4.7 ^p	19 ± 1.3 ^p	17 ± 3.8 ^p
10000.0			15 ± 2.9 ^p	19 ± 3.5 ^p	
Trial Summary	Negative	Negative	Negative	Weakly Positive	Equivocal
Positive Control ²			862 ± 296.6	332 ± 15.1	383 ± 30.3
Positive Control ⁶	340 ± 20.0	374 ± 25.0			

Experiment Number: 315373

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct brown 2

CAS Number: 2429-82-5

Date Report Requested: 09/12/2018

Time Report Requested: 04:26:23

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	32 ± 3.8	26 ± 1.2	29 ± 4.6
33.0			26 ± 1.5
100.0	29 ± 6.0 ^p	30 ± 7.8	27 ± 1.7 ^p
333.0	49 ± 10.7 ^p	32 ± 4.5 ^p	40 ± 3.8 ^p
1000.0	42 ± 3.3 ^p	51 ± 3.0 ^p	32 ± 3.8 ^p
3333.0	19 ± 2.5 ^p	35 ± 3.5 ^p	11 ± 3.3 ^p
10000.0	18 ± 0.6 ^p	19 ± 1.2 ^p	
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	1445 ± 48.0	813 ± 78.7	1193 ± 16.2
Positive Control ⁶			

Experiment Number: 315373
Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data
Test Compound: **C.I. Direct brown 2**
CAS Number: **2429-82-5**

Date Report Requested: **09/12/2018**
Time Report Requested: **04:26:23**

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 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

p: Precipitate

**** END OF REPORT ****