Experiment Number: **231824**

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

G06: Ames Summary Data

Test Compound: **bis(1,5-Cyclooctadiene) nickel**

CAS Number: **1295-35-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **03:49:16**

NTP Study Number: 231824

Study Result: Positive

Experiment Number: **231824**

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

G06: Ames Summary Data

Test Compound: **bis(1,5-Cyclooctadiene) nickel**

CAS Number: **1295-35-8**

Date Report Requested: **09/15/2018**

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	116 ± 6.0	138 ± 8.0	80 ± 0.3	136 ± 11.0	133 ± 3.6
100.0	111 ± 17.6		107 ± 9.7	142 ± 11.3	152 ± 5.4
333.0	98 ± 6.5	168 ± 5.5	105 ± 8.3	141 ± 3.2	122 ± 9.5
1000.0	102 ± 2.5	207 ± 12.0	115 ± 7.3	168 ± 10.5	154 ± 13.4
3333.0	146 ± 12.2	193 ± 17.9	165 ± 6.1	200 ± 6.9	175 ± 5.1
6666.0		169 ± 29.0			
10000.0	164 ± 16.9	245 ± 16.7	205 ± 4.7	235 ± 13.0	225 ± 14.0
Trial Summary	Equivocal	Equivocal	Positive	Weakly Positive	Equivocal
Positive Control[2]					
Positive Control[3]			435 ± 1.8	545 ± 24.8	245 ± 12.2
Positive Control[4]	425 ± 13.4	294 ± 1.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	123 ± 5.4	112 ± 4.2	131 ± 4.7	143 ± 4.9
100.0	140 ± 10.7	120 ± 8.2		121 ± 17.5
333.0	129 ± 9.3	134 ± 10.7	163 ± 6.1	129 ± 3.2
1000.0	158 ± 4.3	163 ± 7.8	194 ± 4.6	147 ± 7.9
3333.0	179 ± 6.3	186 ± 8.5	223 ± 10.2	183 ± 6.8
6666.0			233 ± 7.8	
10000.0	180 ± 17.5	220 ± 17.6	222 ± 10.0	186 ± 14.0
Trial Summary	Equivocal	Positive	Weakly Positive	Equivocal
Positive Control[2]	685 ± 31.9	719 ± 35.3	408 ± 14.0	
Positive Control[3]				622 ± 79.8
Positive Control[4]				

Experiment Number: **231824**

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

G06: Ames Summary Data

Test Compound: **bis(1,5-Cyclooctadiene) nickel**

CAS Number: **1295-35-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **03:49:16**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	20 ± 0.6	7 ± 0.9	7 ± 0.6
100.0	17 ± 1.7	9 ± 2.6	8 ± 0.9
333.0	17 ± 1.7	7 ± 1.2	8 ± 0.3
1000.0	15 ± 0.9	8 ± 0.9	8 ± 1.3
3333.0	13 ± 0.3	8 ± 1.2	8 ± 0.9
10000.0	11 ± 3.0	9 ± 1.2	9 ± 1.3
Trial Summary	Negative	Negative	Negative
Positive Control[3]			157 ± 6.9
Positive Control[4]	244 ± 22.7		
Positive Control[5]		97 ± 3.5	

Experiment Number: **231824**

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

G06: Ames Summary Data

Test Compound: **bis(1,5-Cyclooctadiene) nickel**

CAS Number: **1295-35-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **03:49:16**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	139 ± 5.3	153 ± 15.2	205 ± 2.2	187 ± 5.0	159 ± 5.2
100.0	156 ± 2.5		196 ± 9.0	150 ± 14.0	221 ± 14.1
333.0	149 ± 13.5	199 ± 5.5	193 ± 11.5	149 ± 14.5	224 ± 6.3
1000.0	158 ± 5.0	197 ± 6.2	216 ± 10.0	218 ± 10.0	238 ± 11.6
3333.0	188 ± 11.3	198 ± 7.5	261 ± 1.3	194 ± 15.9	289 ± 8.1
6666.0		164 ± 11.2			
10000.0	219 ± 6.7	178 ± 32.3	266 ± 1.8	123 ± 8.4	243 ± 9.7
Trial Summary	Weakly Positive	Equivocal	Equivocal	Negative	Weakly Positive
Positive Control[2]					
Positive Control[3]			316 ± 2.6	378 ± 28.5	
Positive Control[5]					469 ± 11.3
Positive Control[6]	1112 ± 18.3	567 ± 42.6			

Experiment Number: **231824**

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

G06: Ames Summary Data

Test Compound: **bis(1,5-Cyclooctadiene) nickel**

CAS Number: **1295-35-8**

Date Report Requested: **09/15/2018**

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	195 ± 8.4	201 ± 0.9	178 ± 6.7	180 ± 12.1
100.0		193 ± 5.1	199 ± 2.6	148 ± 3.5
333.0	233 ± 3.2	208 ± 5.8	232 ± 17.9	159 ± 9.2
1000.0	259 ± 12.5	215 ± 6.1	239 ± 15.9	167 ± 8.8
3333.0	250 ± 8.2	243 ± 21.6	263 ± 8.4	175 ± 10.5
6666.0	272 ± 8.4			
10000.0	278 ± 21.0	284 ± 7.9	243 ± 8.2	175 ± 10.7
Trial Summary	Equivocal	Weakly Positive	Weakly Positive	Negative
Positive Control[2]		478 ± 0.9	579 ± 7.8	
Positive Control[3]	285 ± 5.8			536 ± 4.9
Positive Control[5]				
Positive Control[6]				

Experiment Number: **231824**

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

G06: Ames Summary Data

Test Compound: **bis(1,5-Cyclooctadiene) nickel**

CAS Number: **1295-35-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **03:49:16**

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	19 ± 0.7	25 ± 3.2	35 ± 2.3
100.0	21 ± 3.5	31 ± 5.5	28 ± 5.8
333.0	22 ± 2.1	29 ± 3.8	30 ± 0.7
1000.0	19 ± 3.5	29 ± 5.2	32 ± 2.6
3333.0	15 ± 2.0	33 ± 2.2	26 ± 2.9
10000.0	21 ± 3.6	35 ± 4.3	28 ± 6.6
Trial Summary	Negative	Negative	Negative
Positive Control[2]			458 ± 19.1
Positive Control[3]		263 ± 16.0	
Positive Control[7]	678 ± 18.6		

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: Water
2: 0.5 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate 2-Aminoanthracene
4: 1.0 ug/Plate Sodium Azide
5: 2.5 ug/Plate 2-Aminoanthracene
6: 50.0 ug/Plate 9-Aminoacridine
7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **