

Experiment Number: **G05090**
Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

G06: Ames Summary Data
Test Compound: **Efavirenz (EFV)**
CAS Number: **154598-52-4**

Date Report Requested: **09/15/2018**
Time Report Requested: **21:43:47**

NTP Study Number: G05090
Study Result: Negative

Experiment Number: G05090

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Efavirenz (EFV)

CAS Number: 154598-52-4

Date Report Requested: 09/15/2018

Time Report Requested: 21:43:47

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	97 ± 7.5	111 ± 7.8	95 ± 10.7	101 ± 12.8	115 ± 12.4
6.25	90 ± 0.7	101 ± 12.3			
12.5	86 ± 1.8	92 ± 6.3	112 ± 3.2	118 ± 7.9	
25.0	89 ± 4.7	98 ± 3.4	97 ± 5.6	105 ± 7.4	
50.0	76 ± 1.2	84 ± 4.0	94 ± 2.0	98 ± 7.6	
125.0	8 ± 0.3 ^s	67 ± 6.9 ^s	91 ± 5.2	109 ± 5.0	107 ± 15.4
250.0	2 ± 0.7 ^s	73 ± 6.1	88 ± 4.6	89 ± 2.6	81 ± 10.1
500.0			62 ± 4.7 ^s	67 ± 3.0	71 ± 4.9 ^s
1000.0					62 ± 7.0 ^s
1500.0					71 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	781 ± 14.5	887 ± 17.4			
Positive Control ³			2507 ± 97.0	2619 ± 130.5	1669 ± 169.1

Experiment Number: G05090

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Efavirenz (EFV)

CAS Number: 154598-52-4

Date Report Requested: 09/15/2018

Time Report Requested: 21:43:47

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	33 ± 5.0	33 ± 1.5	32 ± 3.4	34 ± 4.9	29 ± 0.7
6.25	31 ± 6.1	32 ± 3.8			
12.5	28 ± 4.3	32 ± 1.8	34 ± 5.5	37 ± 4.7	
25.0	25 ± 3.1	22 ± 3.4	38 ± 4.7	41 ± 3.8	
50.0	20 ± 3.2 ^S	24 ± 7.3	33 ± 2.8	38 ± 4.2	
125.0	11 ± 5.0 ^S	21 ± 1.5	36 ± 1.2	36 ± 5.4	32 ± 1.2
250.0	Toxic	13 ± 0.0 ^S	20 ± 4.7	32 ± 1.5	33 ± 3.2
500.0			23 ± 0.3	21 ± 4.4 ^S	15 ± 2.9 ^S
1000.0					13 ± 1.7 ^S
1500.0					17 ± 2.8 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1018 ± 22.5
Positive Control ⁵			2008 ± 75.8	2406 ± 138.4	
Positive Control ⁶	463 ± 84.5	421 ± 34.8			

Experiment Number: G05090

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Efavirenz (EFV)

CAS Number: 154598-52-4

Date Report Requested: 09/15/2018

Time Report Requested: 21:43:47

Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	169 ± 2.9	167 ± 9.9	187 ± 9.4	220 ± 9.4	199 ± 5.7
25.0	163 ± 8.3	185 ± 19.1	211 ± 16.2	227 ± 11.5	
50.0	154 ± 2.9	169 ± 4.9	191 ± 10.4	215 ± 5.8	
125.0	152 ± 8.5	169 ± 7.5	186 ± 6.5	244 ± 10.7	200 ± 7.1
250.0	146 ± 12.9	164 ± 4.9	193 ± 9.0	235 ± 6.6	156 ± 9.0
500.0	136 ± 0.9	143 ± 3.2	157 ± 11.0	223 ± 16.3	137 ± 12.7
1000.0	130 ± 18.1		142 ± 9.3		137 ± 9.4
1500.0		57 ± 2.0 ^s		76 ± 3.5 ^s	129 ± 11.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷			1430 ± 63.0	1426 ± 66.6	1199 ± 14.0
Positive Control ⁸	1221 ± 32.7	1412 ± 58.6			

Experiment Number: **G05090**
Test Type: **Genetic Toxicology - Bacterial**
Mutagenicity

G06: Ames Summary Data
Test Compound: **Efavirenz (EFV)**
CAS Number: **154598-52-4**

Date Report Requested: **09/15/2018**
Time Report Requested: **21:43:47**

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: 2.5 ug/Plate 2-Aminoanthracene
- 4: 1.0 ug/Plate 2-Aminoanthracene
- 5: 2.0 ug/Plate 2-Aminoanthracene
- 6: 3.0 ug/Plate 2-Nitrofluorene
- 7: 20.0 ug/Plate 2-Aminoanthracene
- 8: 100.0 ug/Plate Methyl Methane Sulfonate
- s: Slight Toxicity

**** END OF REPORT ****