



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB52048	Raccoon Lake SRA	7/11/2022	7/14/2022	< 0.05
AB52050	Cagles Mill Lake Beach	7/11/2022	7/14/2022	0.058
AB52051	Paynetown SRA	7/11/2022	7/14/2022	< 0.05
AB52052	Fairfax SRA	7/11/2022	7/14/2022	< 0.05
AB52053	Starve Hollow SRA	7/11/2022	7/14/2022	0.064
AB52054	Whitewater Memorial SP	7/12/2022	7/14/2022	< 0.05
AB52055	Quakertown SRA	7/12/2022	7/14/2022	< 0.05
AB52056	Mounds SRA	7/12/2022	7/14/2022	< 0.05
AB52057	Hardy Lake SRA	7/12/2022	7/14/2022	< 0.05
AB52049	Deam Lake SRA	7/12/2022	7/14/2022	< 0.05
AB52069	Fairfax SRA (Field Duplicate)	7/11/2022	7/14/2022	< 0.05
AB52070	Field Blank	7/11/2022	7/14/2022	< 0.05
AB52071	Ft. Ben Harrison SP Dog Lake	7/12/2022	7/14/2022	< 0.05

Test Report (by Request)

Test Information

Request: 7/14/2022 3:28:13 PM
Date: 7/14/2022

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
STX Std 0	SAXITOXIN	1.214 Abs	0.000 µg/L	R^2=0.99914, 100.5			M22B127
STX Std 0	SAXITOXIN	1.200 Abs [1.2070] {0.8 C	0.002 µg/L [0.001]	R^2=0.99914, 99.42			M22B127
STX Std 1	SAXITOXIN	1.034 Abs	0.018 µg/L	R^2=0.99914, 85.66			M22B127
STX Std 1	SAXITOXIN	1.010 Abs [1.0220] {1.7 C	0.020 µg/L [0.019]	R^2=0.99914, 83.67			M22B127
STX Std 2	SAXITOXIN	0.772 Abs	0.048 µg/L	R^2=0.99914, 63.96			M22B127
STX Std 2	SAXITOXIN	0.731 Abs [0.7515] {3.9 C	0.055 µg/L [0.052]	R^2=0.99914, 60.56			M22B127
STX Std 3	SAXITOXIN	0.537 Abs	0.098 µg/L	R^2=0.99914, 44.45			M22B127
STX Std 3	SAXITOXIN	0.514 Abs [0.5255] {3.1 C	0.106 µg/L [0.102]	R^2=0.99914, 42.58			M22B127
STX Std 4	SAXITOXIN	0.370 Abs	0.182 µg/L	R^2=0.99914, 30.65			M22B127
STX Std 4	SAXITOXIN	0.366 Abs [0.3680] {0.8 C	0.185 µg/L [0.183]	R^2=0.99914, 30.32			M22B127
STX Std 5	SAXITOXIN	0.237 Abs	> 0.400 µg/L	19.635 %Abs			M22B127
STX Std 5	SAXITOXIN	0.230 Abs [0.2335] {2.1 C	> 0.400 µg/L	19.056 %Abs			M22B127
STX Control (0.060-0.090)	SAXITOXIN	0.680 Abs	0.063 µg/L	56.338 %Abs			M22B127
STX Control (0.060-0.090)	SAXITOXIN	0.643 Abs [0.6615] {4.0 C	0.071 µg/L [0.067]	53.273 %Abs [54.8			M22B127

Note



Signature

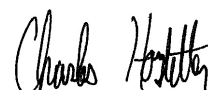
Test Report (by Request)

Test Information

Request: 7/14/2022 3:29:19 PM
Date: 7/14/2022

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
LRB	SAXITOXIN	1.213 Abs	0.000 µg/L	Low, 100.497 %Abs		0.020 - 0.400	M22B127
LRB	SAXITOXIN	1.194 Abs [1.2035] {1.1 C	0.002 µg/L [0.001]	Low, 98.923 %Abs		0.020 - 0.400	M22B127
LFB (SAX)	SAXITOXIN	0.600 Abs	0.081 µg/L	49.710 %Abs		0.020 - 0.400	M22B127
LFB (SAX)	SAXITOXIN	0.599 Abs [0.5995] {0.1 C	0.081 µg/L [0.081]	49.627 %Abs [49.6		0.020 - 0.400	M22B127
AB52048	SAXITOXIN	1.209 Abs	0.000 µg/L	Low, 100.166 %Abs		0.020 - 0.400	M22B127
AB52048	SAXITOXIN	1.202 Abs [1.2055] {0.4 C	0.001 µg/L [0.001]	Low, 99.586 %Abs		0.020 - 0.400	M22B127
AB52050	SAXITOXIN	0.727 Abs	0.055 µg/L	60.232 %Abs		0.020 - 0.400	M22B127
AB52050	SAXITOXIN	0.690 Abs [0.7085] {3.7 C	0.062 µg/L [0.058]	57.167 %Abs [58.6		0.020 - 0.400	M22B127
AB52051	SAXITOXIN	1.132 Abs	0.009 µg/L	Low, 93.786 %Abs		0.020 - 0.400	M22B127
AB52051	SAXITOXIN	1.118 Abs [1.1250] {0.9 C	0.010 µg/L [0.009]	Low, 92.626 %Abs		0.020 - 0.400	M22B127
AB52052	SAXITOXIN	1.177 Abs	0.004 µg/L	Low, 97.514 %Abs		0.020 - 0.400	M22B127
AB52052	SAXITOXIN	1.164 Abs [1.1705] {0.8 C	0.006 µg/L [0.005]	Low, 96.437 %Abs		0.020 - 0.400	M22B127
AB52053	SAXITOXIN	0.685 Abs	0.063 µg/L	56.752 %Abs		0.020 - 0.400	M22B127
AB52053	SAXITOXIN	0.671 Abs [0.6780] {1.5 C	0.065 µg/L [0.064]	55.592 %Abs [56.1		0.020 - 0.400	M22B127
AB52054	SAXITOXIN	1.206 Abs	0.001 µg/L	Low, 100.000 %Abs		0.020 - 0.400	M22B127
AB52054	SAXITOXIN	1.179 Abs [1.1925] {1.6 C	0.004 µg/L [0.003]	Low, 97.680 %Abs		0.020 - 0.400	M22B127
AB52054MS	SAXITOXIN	0.567 Abs	0.089 µg/L	46.976 %Abs		0.020 - 0.400	M22B127
AB52054MS	SAXITOXIN	0.550 Abs [0.5585] {2.2 C	0.094 µg/L [0.091]	45.568 %Abs [46.2		0.020 - 0.400	M22B127
AB52054MSD	SAXITOXIN	0.579 Abs	0.086 µg/L	47.970 %Abs		0.020 - 0.400	M22B127
AB52054MSD	SAXITOXIN	0.567 Abs [0.5730] {1.5 C	0.089 µg/L [0.088]	46.976 %Abs [47.4		0.020 - 0.400	M22B127
AB52055	SAXITOXIN	1.166 Abs	0.005 µg/L	Low, 96.603 %Abs		0.020 - 0.400	M22B127
AB52055	SAXITOXIN	1.128 Abs [1.1470] {2.3 C	0.009 µg/L [0.007]	Low, 93.455 %Abs		0.020 - 0.400	M22B127
AB52056	SAXITOXIN	1.143 Abs	0.008 µg/L	Low, 94.698 %Abs		0.020 - 0.400	M22B127
AB52056	SAXITOXIN	1.112 Abs [1.1275] {1.9 C	0.011 µg/L [0.010]	Low, 92.129 %Abs		0.020 - 0.400	M22B127
AB52057	SAXITOXIN	1.106 Abs	0.011 µg/L	Low, 91.632 %Abs		0.020 - 0.400	M22B127
AB52057	SAXITOXIN	1.098 Abs [1.1020] {0.5 C	0.012 µg/L [0.012]	Low, 90.969 %Abs		0.020 - 0.400	M22B127
AB52049	SAXITOXIN	1.245 Abs	0.000 µg/L	Low, 103.148 %Abs		0.020 - 0.400	M22B127
AB52049	SAXITOXIN	1.246 Abs [1.2455] {0.1 C	0.000 µg/L [0.000]	Low, 103.231 %Abs		0.020 - 0.400	M22B127
AB52069	SAXITOXIN	1.169 Abs	0.005 µg/L	Low, 96.852 %Abs		0.020 - 0.400	M22B127
AB52069	SAXITOXIN	1.144 Abs [1.1565] {1.5 C	0.008 µg/L [0.007]	Low, 94.780 %Abs		0.020 - 0.400	M22B127
AB52070	SAXITOXIN	1.252 Abs	0.000 µg/L	Low, 103.728 %Abs		0.020 - 0.400	M22B127
AB52070	SAXITOXIN	1.232 Abs [1.2420] {1.1 C	0.000 µg/L [0.000]	Low, 102.071 %Abs		0.020 - 0.400	M22B127
AB52071	SAXITOXIN	1.182 Abs	0.004 µg/L	Low, 97.929 %Abs		0.020 - 0.400	M22B127
AB52071	SAXITOXIN	1.168 Abs [1.1750] {0.8 C	0.005 µg/L [0.004]	Low, 96.769 %Abs		0.020 - 0.400	M22B127

Note



Signature

Assay Information

Assay Name: SAXITOXIN
Version: 2
Temperature: Room Temperature
Last Modified By: Security disabled
Units: µg/L
Assay Description: PN. 52255B
Assay Substances: Controls:

Assay Mode: 4-Parameter Logistic Weight by:None
Well Type: Flat bottom
Last Modified On: 7/25/2019 3:55:28 PM
Normal: 0.020 - 0.400
of decimals: 3
Kit Lot Number: M22B1271

STX Control (0.060-0.090)
Standards:
STX Std 0, Concentration = 0.000, Minimum number to use: 2
STX Std 1, Concentration = 0.020, Minimum number to use: 2
STX Std 2, Concentration = 0.050, Minimum number to use: 2
STX Std 3, Concentration = 0.100, Minimum number to use: 2
STX Std 4, Concentration = 0.200, Minimum number to use: 2
STX Std 5, Concentration = 0.400, Minimum number to use: 2
Curve valid interval: 1 days 0 hours
Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration

Current Calibration Status: "

"

Name	Absorbance	Concentration	Interpretation	Position
7/14/2022 3:28:13 PM				
STX Std 0	1.214 Abs	0.000 µg/L	R^2=0.99914, 100.580 %Abs	RK1:30->A07@2
STX Std 0	1.200 Abs [1.2070] {0.8 CV}	0.002 µg/L [0.001] {141.4 CV}	R^2=0.99914, 99.420 %Abs	RK1:30->B07@2
STX Std 1	1.034 Abs	0.018 µg/L	R^2=0.99914, 85.667 %Abs	RK1:31->C07@2
STX Std 1	1.010 Abs [1.0220] {1.7 CV}	0.020 µg/L [0.019] {7.4 CV}	R^2=0.99914, 83.679 %Abs	RK1:31->D07@2
STX Std 2	0.772 Abs	0.048 µg/L	R^2=0.99914, 63.960 %Abs	RK1:32->E07@2
STX Std 2	0.731 Abs [0.7515] {3.9 CV}	0.055 µg/L [0.052] {9.6 CV}	R^2=0.99914, 60.563 %Abs	RK1:32->F07@3
STX Std 3	0.537 Abs	0.098 µg/L	R^2=0.99914, 44.490 %Abs	RK1:33->G07@3
STX Std 3	0.514 Abs [0.5255] {3.1 CV}	0.106 µg/L [0.102] {5.5 CV}	R^2=0.99914, 42.585 %Abs	RK1:33->H07@3
STX Std 4	0.370 Abs	0.182 µg/L	R^2=0.99914, 30.655 %Abs	RK1:34->A08@2
STX Std 4	0.366 Abs [0.3680] {0.8 CV}	0.185 µg/L [0.183] {1.2 CV}	R^2=0.99914, 30.323 %Abs	RK1:34->B08@2
STX Std 5	0.237 Abs	> 0.400 µg/L	19.635 %Abs	RK1:35->C08@2
STX Std 5	0.230 Abs [0.2335] {2.1 CV}	> 0.400 µg/L	19.056 %Abs	RK1:35->D08@2

7/14/2022 3:28:13 PM				
STX Control (0.060-0.090)	0.680 Abs	0.063 µg/L	56.338 %Abs	RK1:36->E08@2
STX Control (0.060-0.090)	0.643 Abs [0.6615] {4.0 CV}	0.071 µg/L [0.067] {8.4 CV}	53.273 %Abs [54.805 %Abs]	RK1:36->F08@3

Statistic				
STX Std 0 [MEAN]	1.2070	0.0010		
STX Std 0 [SD]	0.0099	0.0014		
STX Std 0 [%CV]	0.8202	141.4214		
STX Std 1 [MEAN]	1.0220	0.0190		
STX Std 1 [SD]	0.0170	0.0014		
STX Std 1 [%CV]	1.6605	7.4432		
STX Std 1 [%DIFF]		-5.0000		
STX Std 2 [MEAN]	0.7515	0.0515		
STX Std 2 [SD]	0.0290	0.0049		
STX Std 2 [%CV]	3.8578	9.6112		
STX Std 2 [%DIFF]		3.0000		
STX Std 3 [MEAN]	0.5255	0.1020		
STX Std 3 [SD]	0.0163	0.0057		
STX Std 3 [%CV]	3.0949	5.5459		
STX Std 3 [%DIFF]		2.0000		
STX Std 4 [MEAN]	0.3680	0.1835		
STX Std 4 [SD]	0.0028	0.0021		
STX Std 4 [%CV]	0.7686	1.1560		
STX Std 4 [%DIFF]		-8.2500		
STX Std 5 [MEAN]	0.2335			
STX Std 5 [SD]	0.0049			
STX Std 5 [%CV]	2.1198			

Name	Absorbance	Concentration	Interpretation	Position	
STX Control (0.060-0.090) [MEAN]	0.6615	0.0670			
STX Control (0.060-0.090) [SD]	0.0262	0.0057			
STX Control (0.060-0.090) [%CV]	3.9551	8.4431			

Assay Curve

$y = (A-D)/(1+(x/C)^B) + D$
 Weight: NONE
 A = 1.2101
 B = 1.2809
 C = 0.063173
 D = 0.15334
 R2 coef = 0.99914
 50% = 0.080

