



Saxitoxin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB48106	Raccoon Lake SRA	8/9/2021	8/11/2021	< 0.05
AB48108	Cagles Mill Lake Beach	8/9/2021	8/11/2021	< 0.05
AB48109	Paynetown SRA	8/9/2021	8/11/2021	< 0.05
AB48110	Fairfax SRA	8/9/2021	8/11/2021	< 0.05
AB48111	Starve Hollow SRA	8/9/2021	8/11/2021	< 0.05
AB48112	Whitewater Memorial SP	8/10/2021	8/11/2021	< 0.05
AB48113	Quakertown SRA	8/10/2021	8/11/2021	< 0.05
AB48114	Mounds SRA	8/10/2021	8/11/2021	< 0.05
AB48115	Hardy Lake SRA	8/10/2021	8/11/2021	< 0.05
AB48107	Deam Lake SRA	8/10/2021	8/11/2021	< 0.05
AB48116	Cagles Mill Lake Beach (Field Duplicate)	8/9/2021	8/11/2021	< 0.05
AB48117	Field Blank	8/9/2021	8/11/2021	< 0.05

Test Report (by Request)

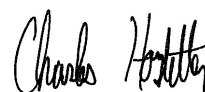
Test Information

Request: 8/11/2021 2:18:45 PM
Date: 8/11/2021

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
STX Std 0	SAXITOXIN	1.168 Abs	0.000 µg/L	R^2=0.99914, 100.0			20G3584
STX Std 0	SAXITOXIN	1.167 Abs [1.1675] {0.1 C	0.000 µg/L [0.000]	R^2=0.99914, 100.0			20G3584
STX Std 1	SAXITOXIN	0.980 Abs	0.020 µg/L	R^2=0.99914, 83.90			20G3584
STX Std 1	SAXITOXIN	0.972 Abs [0.9760] {0.6 C	0.021 µg/L [0.021]	R^2=0.99914, 83.21			20G3584
STX Std 2	SAXITOXIN	0.743 Abs	0.047 µg/L	R^2=0.99914, 63.61			20G3584
STX Std 2	SAXITOXIN	0.734 Abs [0.7385] {0.9 C	0.049 µg/L [0.048]	R^2=0.99914, 62.84			20G3584
STX Std 3	SAXITOXIN	0.467 Abs	0.104 µg/L	R^2=0.99914, 39.98			20G3584
STX Std 3	SAXITOXIN	0.460 Abs [0.4635] {1.1 C	0.107 µg/L [0.105]	R^2=0.99914, 39.38			20G3584
STX Std 4	SAXITOXIN	0.305 Abs	0.184 µg/L	R^2=0.99914, 26.11			20G3584
STX Std 4	SAXITOXIN	0.291 Abs [0.2980] {3.3 C	0.195 µg/L [0.190]	R^2=0.99914, 24.91			20G3584
STX Std 5	SAXITOXIN	0.172 Abs	> 0.400 µg/L	14.726 %Abs			20G3584
STX Std 5	SAXITOXIN	0.163 Abs [0.1675] {3.8 C	> 0.400 µg/L	13.955 %Abs			20G3584
STX Control (0.060-0.090)	SAXITOXIN	0.604 Abs	0.070 µg/L	51.712 %Abs			20G3584
STX Control (0.060-0.090)	SAXITOXIN	0.592 Abs [0.5980] {1.4 C	0.073 µg/L [0.072]	50.685 %Abs [51.1			20G3584

Note

Signature



Test Report (by Request)

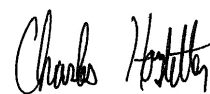
Test Information

Request: 8/11/2021 2:20:36 PM
Date: 8/11/2021

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
LRB	SAXITOXIN	1.125 Abs	0.006 µg/L	Low, 96.318 %Abs		0.020 - 0.400	20G3584
LRB	SAXITOXIN	1.133 Abs [1.1290] {0.5 C	0.005 µg/L [0.006]	Low, 97.003 %Abs		0.020 - 0.400	20G3584
LFB (SAX)	SAXITOXIN	0.501 Abs	0.094 µg/L	42.894 %Abs		0.020 - 0.400	20G3584
LFB (SAX)	SAXITOXIN	0.486 Abs [0.4935] {2.1 C	0.098 µg/L [0.096]	41.610 %Abs [42.2		0.020 - 0.400	20G3584
AB48106	SAXITOXIN	1.094 Abs	0.009 µg/L	Low, 93.664 %Abs		0.020 - 0.400	20G3584
AB48106	SAXITOXIN	1.095 Abs [1.0945] {0.1 C	0.009 µg/L [0.009]	Low, 93.750 %Abs		0.020 - 0.400	20G3584
AB48108	SAXITOXIN	0.972 Abs	0.021 µg/L	83.219 %Abs		0.020 - 0.400	20G3584
AB48108	SAXITOXIN	0.965 Abs [0.9685] {0.5 C	0.022 µg/L [0.021]	82.620 %Abs [82.9		0.020 - 0.400	20G3584
AB48109	SAXITOXIN	0.887 Abs	0.030 µg/L	75.942 %Abs		0.020 - 0.400	20G3584
AB48109	SAXITOXIN	0.889 Abs [0.8880] {0.2 C	0.030 µg/L [0.030]	76.113 %Abs [76.0		0.020 - 0.400	20G3584
AB48109MS	SAXITOXIN	0.443 Abs	0.112 µg/L	37.928 %Abs		0.020 - 0.400	20G3584
AB48109MS	SAXITOXIN	0.422 Abs [0.4325] {3.4 C	0.120 µg/L [0.116]	36.130 %Abs [37.0		0.020 - 0.400	20G3584
AB48109MSD	SAXITOXIN	0.415 Abs	0.123 µg/L	35.531 %Abs		0.020 - 0.400	20G3584
AB48109MSD	SAXITOXIN	0.409 Abs [0.4120] {1.0 C	0.125 µg/L [0.124]	35.017 %Abs [35.2		0.020 - 0.400	20G3584
AB48110	SAXITOXIN	0.959 Abs	0.022 µg/L	82.106 %Abs		0.020 - 0.400	20G3584
AB48110	SAXITOXIN	0.950 Abs [0.9545] {0.7 C	0.023 µg/L [0.023]	81.336 %Abs [81.7		0.020 - 0.400	20G3584
AB48111	SAXITOXIN	0.840 Abs	0.035 µg/L	71.918 %Abs		0.020 - 0.400	20G3584
AB48111	SAXITOXIN	0.853 Abs [0.8465] {1.1 C	0.034 µg/L [0.035]	73.031 %Abs [72.4		0.020 - 0.400	20G3584
AB48112	SAXITOXIN	1.329 Abs	0.000 µg/L	Low, 113.784 %Abs		0.020 - 0.400	20G3584
AB48112	SAXITOXIN	1.319 Abs [1.3240] {0.5 C	0.000 µg/L [0.000]	Low, 112.928 %Abs		0.020 - 0.400	20G3584
AB48113	SAXITOXIN	1.125 Abs	0.006 µg/L	Low, 96.318 %Abs		0.020 - 0.400	20G3584
AB48113	SAXITOXIN	1.105 Abs [1.1150] {1.3 C	0.008 µg/L [0.007]	Low, 94.606 %Abs		0.020 - 0.400	20G3584
AB48114	SAXITOXIN	1.152 Abs	0.003 µg/L	Low, 98.630 %Abs		0.020 - 0.400	20G3584
AB48114	SAXITOXIN	1.145 Abs [1.1485] {0.4 C	0.003 µg/L [0.003]	Low, 98.031 %Abs		0.020 - 0.400	20G3584
AB48115	SAXITOXIN	1.147 Abs	0.003 µg/L	Low, 98.202 %Abs		0.020 - 0.400	20G3584
AB48115	SAXITOXIN	1.151 Abs [1.1490] {0.2 C	0.003 µg/L [0.003]	Low, 98.545 %Abs		0.020 - 0.400	20G3584
AB48107	SAXITOXIN	1.292 Abs	0.000 µg/L	Low, 110.616 %Abs		0.020 - 0.400	20G3584
AB48107	SAXITOXIN	1.275 Abs [1.2835] {0.9 C	0.000 µg/L [0.000]	Low, 109.161 %Abs		0.020 - 0.400	20G3584
AB48116	SAXITOXIN	1.097 Abs	0.009 µg/L	Low, 93.921 %Abs		0.020 - 0.400	20G3584
AB48116	SAXITOXIN	1.096 Abs [1.0965] {0.1 C	0.009 µg/L [0.009]	Low, 93.836 %Abs		0.020 - 0.400	20G3584
AB48117	SAXITOXIN	1.268 Abs	0.000 µg/L	Low, 108.562 %Abs		0.020 - 0.400	20G3584
AB48117	SAXITOXIN	1.267 Abs [1.2675] {0.1 C	0.000 µg/L [0.000]	Low, 108.476 %Abs		0.020 - 0.400	20G3584

Note

Signature



Charles Hostetter 8/12/2021

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: 20G3584

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
8/11/2021 2:18:45 PM				
STX Std 0	1.168 Abs	0.000 µg/L	R^2=0.99914, 100.000 %Abs	RK1:23->A01@2
STX Std 0	1.167 Abs [1.1675] {0.1 CV}	0.000 µg/L [0.000]	R^2=0.99914, 100.000 %Abs	RK1:23->B01@2
STX Std 1	0.980 Abs	0.020 µg/L	R^2=0.99914, 83.904 %Abs	RK1:24->C01@2
STX Std 1	0.972 Abs [0.9760] {0.6 CV}	0.021 µg/L [0.021] {3.4 CV}	R^2=0.99914, 83.219 %Abs	RK1:24->D01@2
STX Std 2	0.743 Abs	0.047 µg/L	R^2=0.99914, 63.613 %Abs	RK1:25->E01@2
STX Std 2	0.734 Abs [0.7385] {0.9 CV}	0.049 µg/L [0.048] {2.9 CV}	R^2=0.99914, 62.842 %Abs	RK1:25->F01@3
STX Std 3	0.467 Abs	0.104 µg/L	R^2=0.99914, 39.983 %Abs	RK1:26->G01@3
STX Std 3	0.460 Abs [0.4635] {1.1 CV}	0.107 µg/L [0.105] {2.0 CV}	R^2=0.99914, 39.384 %Abs	RK1:26->H01@3
STX Std 4	0.305 Abs	0.184 µg/L	R^2=0.99914, 26.113 %Abs	RK1:27->A02@2
STX Std 4	0.291 Abs [0.2980] {3.3 CV}	0.195 µg/L [0.190] {4.1 CV}	R^2=0.99914, 24.914 %Abs	RK1:27->B02@2
STX Std 5	0.172 Abs	> 0.400 µg/L	14.726 %Abs	RK1:28->C02@2
STX Std 5	0.163 Abs [0.1675] {3.8 CV}	> 0.400 µg/L	13.955 %Abs	RK1:28->D02@2
+++++				
8/11/2021 2:18:45 PM				
STX Control (0.060-0.090)	0.604 Abs	0.070 µg/L	51.712 %Abs	RK1:29->E02@2
STX Control (0.060-0.090)	0.592 Abs [0.5980] {1.4 CV}	0.073 µg/L [0.072] {3.0 CV}	50.685 %Abs [51.199 %Abs]	RK1:29->F02@3

Statistic				
STX Std 0 [MEAN]	1.1675	0.0000		
STX Std 0 [SD]	0.0007	0.0000		
STX Std 0 [%CV]	0.0606	0.0000		
STX Std 1 [MEAN]	0.9760	0.0205		
STX Std 1 [SD]	0.0057	0.0007		
STX Std 1 [%CV]	0.5796	3.4493		
STX Std 1 [%DIFF]		2.5000		
STX Std 2 [MEAN]	0.7385	0.0480		
STX Std 2 [SD]	0.0064	0.0014		
STX Std 2 [%CV]	0.8617	2.9463		
STX Std 2 [%DIFF]		-4.0000		
STX Std 3 [MEAN]	0.4635	0.1055		
STX Std 3 [SD]	0.0049	0.0021		
STX Std 3 [%CV]	1.0679	2.0107		
STX Std 3 [%DIFF]		5.5000		
STX Std 4 [MEAN]	0.2980	0.1895		
STX Std 4 [SD]	0.0099	0.0078		
STX Std 4 [%CV]	3.3220	4.1046		
STX Std 4 [%DIFF]		-5.2500		
STX Std 5 [MEAN]	0.1675			
STX Std 5 [SD]	0.0064			
STX Std 5 [%CV]	3.7994			

Name	Absorbance	Concentration	Interpretation	Position	
STX Control (0.060-0.090) [MEAN]	0.5980	0.0715			
STX Control (0.060-0.090) [SD]	0.0085	0.0021			
STX Control (0.060-0.090) [%CV]	1.4189	2.9669			

Assay Curve

$y = (A-D)/(1+(x/C)^B) + D$
 Weight: NONE
 A = 1.1667
 B = 1.3165
 C = 0.066794
 D = 0.077746
 R2 coef = 0.99914
 50% = 0.074

