



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AC45225	Cecil M. Harden Lake - Raccoon Lake SRA Beach	5/27/2025	5/28/2025	< 0.40
AC45226	Whitewater Memorial SP - Whitewater Lake Beach	5/27/2025	5/28/2025	< 0.40
AC45227	Brookville Lake - Quakertown SRA Beach	5/27/2025	5/28/2025	< 0.40
AC45228	Whitewater Memorial SP - Whitewater Lake Beach (Field Duplicate)	5/27/2025	5/28/2025	< 0.40
AC45229	Field Blank	5/27/2025	5/28/2025	< 0.40
AC45243	Ouabache SP - Kunkel Lake Beach	5/27/2025	5/28/2025	< 0.40

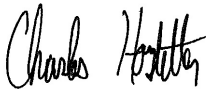
Test Report (by Request)

Test Information

Request: 5/28/2025 4:45:20 PM
Date: 5/28/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
ATX Std 0	ANATOXIN	1.710 Abs	0.000 µg/L	R^2=0.99941, 100.5		0.000	Kit:P23L3i
ATX Std 0	ANATOXIN	1.678 Abs [1.6940] {1.3 C	0.005 µg/L [0.003]	R^2=0.99941, 99.05		0.000	Kit:P23L3i
ATX Std 1	ANATOXIN	1.423 Abs	0.128 µg/L	R^2=0.99941, 84.00		0.150	Kit:P23L3i
ATX Std 1	ANATOXIN	1.364 Abs [1.3935] {3.0 C	0.167 µg/L [0.148]	R^2=0.99941, 80.51		0.150	Kit:P23L3i
ATX Std 2	ANATOXIN	1.086 Abs	0.418 µg/L	R^2=0.99941, 64.10		0.400	Kit:P23L3i
ATX Std 2	ANATOXIN	1.118 Abs [1.1020] {2.1 C	0.381 µg/L [0.400]	R^2=0.99941, 65.95		0.400	Kit:P23L3i
ATX Std 3	ANATOXIN	0.746 Abs	1.025 µg/L	R^2=0.99941, 44.03		1.000	Kit:P23L3i
ATX Std 3	ANATOXIN	0.733 Abs [0.7395] {1.2 C	1.060 µg/L [1.043]	R^2=0.99941, 43.27		1.000	Kit:P23L3i
ATX Std 4	ANATOXIN	0.470 Abs	2.240 µg/L	R^2=0.99941, 27.74		2.500	Kit:P23L3i
ATX Std 4	ANATOXIN	0.447 Abs [0.4585] {3.5 C	2.413 µg/L [2.327]	R^2=0.99941, 26.38		2.500	Kit:P23L3i
ATX Std 5	ANATOXIN	0.258 Abs	> 5.000 µg/L	15.230 %Abs		5.000	Kit:P23L3i
ATX Std 5	ANATOXIN	0.241 Abs [0.2495] {4.8 C	> 5.000 µg/L	14.227 %Abs		5.000	Kit:P23L3i
ATX Control	ANATOXIN	0.913 Abs	0.665 µg/L	53.896 %Abs			Kit:P23L3i
ATX Control	ANATOXIN	0.909 Abs [0.9110] {0.3 C	0.672 µg/L [0.669]	53.660 %Abs [53.7			Kit:P23L3i

Note

Signature 

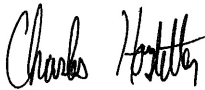
Test Information

Request: 5/28/2025 4:57:23 PM

Date: 5/28/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#	
LRB	ANATOXIN	1.533 Abs	0.067 µg/L	Low, 90.496 %Abs		0.150 - 5.000	Kit:P23L3i	
LRB	ANATOXIN	1.547 Abs [1.5400] {0.6 C	0.060 µg/L [0.064]	Low, 91.322 %Abs		0.150 - 5.000	Kit:P23L3i	
LFB (ANA)	ANATOXIN	0.947 Abs	0.608 µg/L	55.903 %Abs		0.150 - 5.000	Kit:P23L3i	
LFB (ANA)	ANATOXIN	0.918 Abs [0.9325] {2.2 C	0.656 µg/L [0.632]	54.191 %Abs [55.0		0.150 - 5.000	Kit:P23L3i	
AC45225	ANATOXIN	1.603 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45225	ANATOXIN	1.567 Abs [1.5850] {1.6 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45225MS	ANATOXIN	0.858 Abs	0.766 µg/L	50.649 %Abs		0.150 - 5.000	Kit:P23L3i	
AC45225MS	ANATOXIN	0.859 Abs [0.8585] {0.1 C	0.764 µg/L [0.765]	50.708 %Abs [50.6		0.150 - 5.000	Kit:P23L3i	
AC45225MSD	ANATOXIN	0.865 Abs	0.753 µg/L	51.063 %Abs		0.150 - 5.000	Kit:P23L3i	
AC45225MSD	ANATOXIN	0.855 Abs [0.8600] {0.8 C	0.772 µg/L [0.763]	50.472 %Abs [50.7		0.150 - 5.000	Kit:P23L3i	
AC45226	ANATOXIN	1.643 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45226	ANATOXIN	1.632 Abs [1.6375] {0.5 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45227	ANATOXIN	1.599 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45227	ANATOXIN	1.596 Abs [1.5975] {0.1 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45228	ANATOXIN	1.600 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45228	ANATOXIN	1.568 Abs [1.5840] {1.4 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45229	ANATOXIN	1.579 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45229	ANATOXIN	1.542 Abs [1.5605] {1.7 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45243	ANATOXIN	1.591 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	
AC45243	ANATOXIN	1.547 Abs [1.5690] {2.0 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i	

Note



Signature

Assay Information

Assay Name: ANATOXIN
 Version: 2
 Temperature: Room Temperature
 Last Modified By: Security disabled
 Units: µg/L
 Assay Description: PN 520060
 Assay Substances: Controls:

Assay Mode: 4-Parameter Logistic Weight by:None
 Well Type: Flat bottom
 Last Modified On: 7/25/2019 3:49:23 PM
 Normal: 0.150 - 5.000
 # of decimals: 3
 Kit Lot Number: Kit:P23L3054

ATX Control
 Standards:
 ATX Std 0, Concentration = 0.000, Minimum number to use: 2
 ATX Std 1, Concentration = 0.150, Minimum number to use: 2
 ATX Std 2, Concentration = 0.400, Minimum number to use: 2
 ATX Std 3, Concentration = 1.000, Minimum number to use: 2
 ATX Std 4, Concentration = 2.500, Minimum number to use: 2
 ATX Std 5, Concentration = 5.000, 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
5/28/2025 4:45:20 PM				
ATX Std 0	1.710 Abs	0.000 µg/L	R ² =0.99941, 100.945 %Abs	RK1:23->A01@2
ATX Std 0	1.678 Abs [1.6940] {1.3 CV}	0.005 µg/L [0.003] {141.4 CV}	R ² =0.99941, 99.055 %Abs	RK1:23->B01@2
ATX Std 1	1.423 Abs	0.128 µg/L	R ² =0.99941, 84.002 %Abs	RK1:24->C01@2
ATX Std 1	1.364 Abs [1.3935] {3.0 CV}	0.167 µg/L [0.148] {18.7 CV}	R ² =0.99941, 80.519 %Abs	RK1:24->D01@2
ATX Std 2	1.086 Abs	0.418 µg/L	R ² =0.99941, 64.109 %Abs	RK1:25->E01@2
ATX Std 2	1.118 Abs [1.1020] {2.1 CV}	0.381 µg/L [0.400] {6.5 CV}	R ² =0.99941, 65.998 %Abs	RK1:25->F01@3
ATX Std 3	0.746 Abs	1.025 µg/L	R ² =0.99941, 44.038 %Abs	RK1:26->G01@3
ATX Std 3	0.733 Abs [0.7395] {1.2 CV}	1.060 µg/L [1.043] {2.4 CV}	R ² =0.99941, 43.270 %Abs	RK1:26->H01@3
ATX Std 4	0.470 Abs	2.240 µg/L	R ² =0.99941, 27.745 %Abs	RK1:27->A02@2
ATX Std 4	0.447 Abs [0.4585] {3.5 CV}	2.413 µg/L [2.327] {5.3 CV}	R ² =0.99941, 26.387 %Abs	RK1:27->B02@2
ATX Std 5	0.258 Abs	> 5.000 µg/L	15.230 %Abs	RK1:28->C02@2
ATX Std 5	0.241 Abs [0.2495] {4.8 CV}	> 5.000 µg/L	14.227 %Abs	RK1:28->D02@2

5/28/2025 4:45:20 PM				
ATX Control	0.913 Abs	0.665 µg/L	53.896 %Abs	RK1:29->E02@2
ATX Control	0.909 Abs [0.9110] {0.3 CV}	0.672 µg/L [0.669] {0.7 CV}	53.660 %Abs [53.778 %Abs]	RK1:29->F02@3

Statistic				
ATX Std 0 [MEAN]	1.6940	0.0025		
ATX Std 0 [SD]	0.0226	0.0035		
ATX Std 0 [%CV]	1.3357	141.4214		
ATX Std 1 [MEAN]	1.3935	0.1475		
ATX Std 1 [SD]	0.0417	0.0276		
ATX Std 1 [%CV]	2.9939	18.6964		
ATX Std 1 [%DIFF]		-1.6667		
ATX Std 2 [MEAN]	1.1020	0.3995		
ATX Std 2 [SD]	0.0226	0.0262		
ATX Std 2 [%CV]	2.0533	6.5489		
ATX Std 2 [%DIFF]		-0.1250		
ATX Std 3 [MEAN]	0.7395	1.0425		
ATX Std 3 [SD]	0.0092	0.0247		
ATX Std 3 [%CV]	1.2431	2.3740		
ATX Std 3 [%DIFF]		4.2500		
ATX Std 4 [MEAN]	0.4585	2.3265		
ATX Std 4 [SD]	0.0163	0.1223		
ATX Std 4 [%CV]	3.5471	5.2581		
ATX Std 4 [%DIFF]		-6.9400		
ATX Std 5 [MEAN]	0.2495			
ATX Std 5 [SD]	0.0120			
ATX Std 5 [%CV]	4.8180			

Name	Absorbance	Concentration	Interpretation	Position	
ATX Control [MEAN]	0.9110	0.6685			
ATX Control [SD]	0.0028	0.0049			
ATX Control [%CV]	0.3105	0.7404			

Assay Curve

y = (A-D)/(1+(x/C)^B) + D
Weight: NONE
A = 1.6960
B = 0.90799
C = 0.79596
D = -0.0092480
R2 coef = 0.99941
50% = 0.789

