



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

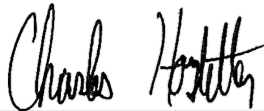
Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AC45921	Cecil M. Harden Lake - Raccoon Lake SRA Beach	7/21/2025	7/23/2025	< 0.40
AC45922	Cagles Mill Lake - Lieber SRA Beach	7/21/2025	7/23/2025	< 0.40
AC45923	Brookville Lake - Quakertown SRA Beach	7/22/2025	7/23/2025	< 0.40
AC45924	Brookville Lake - Mounds SRA Beach	7/22/2025	7/23/2025	< 0.40
AC45925	Hardy Lake SRA - Hardy Lake SRA Beach	7/22/2025	7/23/2025	< 0.40
AC45926	Brookville Lake - Quakertown SRA Beach (Field Dup.)	7/22/2025	7/23/2025	< 0.40
AC45927	Field Blank	7/22/2025	7/23/2025	< 0.40
AC45928	Ft. Ben Harrison SP Dog Lake	7/21/2025	7/23/2025	< 0.40

Test Information

Request: 7/23/2025 10:46:11 AM
Date: 7/23/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
ATX Std 0	ANATOXIN	1.369 Abs	0.000 µg/L	R^2=0.99928, 100.4		0.000	Kit:P23L3i
ATX Std 0	ANATOXIN	1.356 Abs [1.3625] {0.7 C	0.004 µg/L [0.002]	R^2=0.99928, 99.4		0.000	Kit:P23L3i
ATX Std 1	ANATOXIN	1.162 Abs	0.116 µg/L	R^2=0.99928, 85.2		0.150	Kit:P23L3i
ATX Std 1	ANATOXIN	1.092 Abs [1.1270] {4.4 C	0.170 µg/L [0.143]	R^2=0.99928, 80.1		0.150	Kit:P23L3i
ATX Std 2	ANATOXIN	0.878 Abs	0.402 µg/L	R^2=0.99928, 64.4		0.400	Kit:P23L3i
ATX Std 2	ANATOXIN	0.864 Abs [0.8710] {1.1 C	0.422 µg/L [0.412]	R^2=0.99928, 63.3		0.400	Kit:P23L3i
ATX Std 3	ANATOXIN	0.601 Abs	0.985 µg/L	R^2=0.99928, 44.0		1.000	Kit:P23L3i
ATX Std 3	ANATOXIN	0.576 Abs [0.5885] {3.0 C	1.068 µg/L [1.027]	R^2=0.99928, 42.2		1.000	Kit:P23L3i
ATX Std 4	ANATOXIN	0.371 Abs	2.200 µg/L	R^2=0.99928, 27.2		2.500	Kit:P23L3i
ATX Std 4	ANATOXIN	0.346 Abs [0.3585] {4.9 C	2.435 µg/L [2.318]	R^2=0.99928, 25.3		2.500	Kit:P23L3i
ATX Std 5	ANATOXIN	0.202 Abs	4.991 µg/L	R^2=0.99928, 14.8		5.000	Kit:P23L3i
ATX Std 5	ANATOXIN	0.180 Abs [0.1910] {8.1 C	> 5.000 µg/L [4.99	13.206 %Abs		5.000	Kit:P23L3i
ATX Control	ANATOXIN	0.701 Abs	0.717 µg/L	51.431 %Abs			Kit:P23L3i
ATX Control	ANATOXIN	0.706 Abs [0.7035] {0.5 C	0.706 µg/L [0.712]	51.798 %Abs [51.6			Kit:P23L3i

Note

Signature 

Charles Hostetter 7/23/2025

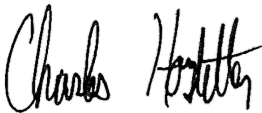
Test Information

Request: 7/23/2025 11:07:56 AM

Date: 7/23/2025

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
LRB	ANATOXIN	1.210 Abs	0.083 µg/L	Low, 88.775 %Abs		0.150 - 5.000	Kit:P23L3i
LRB	ANATOXIN	1.221 Abs [1.2155] {0.6 C	0.076 µg/L [0.080]	Low, 89.582 %Abs		0.150 - 5.000	Kit:P23L3i
LFB (ANA)	ANATOXIN	0.710 Abs	0.697 µg/L	52.091 %Abs		0.150 - 5.000	Kit:P23L3i
LFB (ANA)	ANATOXIN	0.701 Abs [0.7055] {0.9 C	0.717 µg/L [0.707]	51.431 %Abs [51.7		0.150 - 5.000	Kit:P23L3i
AC45921	ANATOXIN	1.204 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45921	ANATOXIN	1.164 Abs [1.1840] {2.4 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45922	ANATOXIN	1.098 Abs	0.182 µg/L	80.558 %Abs	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45922	ANATOXIN	1.102 Abs [1.1000] {0.3 C	0.178 µg/L [0.180]	80.851 %Abs [80.7	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45922MS	ANATOXIN	0.620 Abs	0.927 µg/L	45.488 %Abs		0.150 - 5.000	Kit:P23L3i
AC45922MS	ANATOXIN	0.626 Abs [0.6230] {0.7 C	0.910 µg/L [0.919]	45.928 %Abs [45.7		0.150 - 5.000	Kit:P23L3i
AC45922MSD	ANATOXIN	0.657 Abs	0.824 µg/L	48.202 %Abs		0.150 - 5.000	Kit:P23L3i
AC45922MSD	ANATOXIN	0.660 Abs [0.6585] {0.3 C	0.817 µg/L [0.821]	48.423 %Abs [48.3		0.150 - 5.000	Kit:P23L3i
AC45923	ANATOXIN	1.253 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45923	ANATOXIN	1.241 Abs [1.2470] {0.7 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45924	ANATOXIN	1.139 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45924	ANATOXIN	1.195 Abs [1.1670] {3.4 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45925	ANATOXIN	1.003 Abs	0.278 µg/L	73.588 %Abs	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45925	ANATOXIN	1.010 Abs [1.0065] {0.5 C	0.271 µg/L [0.275]	74.101 %Abs [73.8	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45926	ANATOXIN	1.312 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45926	ANATOXIN	1.293 Abs [1.3025] {1.0 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45927	ANATOXIN	1.273 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45927	ANATOXIN	1.258 Abs [1.2655] {0.8 C	< LOD [< LOD]	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45928	ANATOXIN	1.257 Abs	< LOD	Low, Out Adjust Dilt	MDF=1.100	0.150 - 5.000	Kit:P23L3i
AC45928	ANATOXIN	1.209 Abs [1.2330] {2.8 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:

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 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

Assay Calibration

Current Calibration Status: "

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Name	Absorbance	Concentration	Interpretation	Position	
7/23/2025 10:46:11 AM					
ATX Std 0	1.369 Abs	0.000 µg/L	R^2=0.99928, 100.440 %Abs	RK1:23->A01@2	
ATX Std 0	1.356 Abs [1.3625] {0.7 CV}	0.004 µg/L [0.002] {141.4 CV}	R^2=0.99928, 99.486 %Abs	RK1:23->B01@2	
ATX Std 1	1.162 Abs	0.116 µg/L	R^2=0.99928, 85.253 %Abs	RK1:24->C01@2	
ATX Std 1	1.092 Abs [1.1270] {4.4 CV}	0.170 µg/L [0.143] {26.7 CV}	R^2=0.99928, 80.117 %Abs	RK1:24->D01@2	
ATX Std 2	0.878 Abs	0.402 µg/L	R^2=0.99928, 64.417 %Abs	RK1:25->E01@2	
ATX Std 2	0.864 Abs [0.8710] {1.1 CV}	0.422 µg/L [0.412] {3.4 CV}	R^2=0.99928, 63.390 %Abs	RK1:25->F01@3	
ATX Std 3	0.601 Abs	0.985 µg/L	R^2=0.99928, 44.094 %Abs	RK1:26->G01@3	
ATX Std 3	0.576 Abs [0.5885] {3.0 CV}	1.068 µg/L [1.027] {5.7 CV}	R^2=0.99928, 42.260 %Abs	RK1:26->H01@3	
ATX Std 4	0.371 Abs	2.200 µg/L	R^2=0.99928, 27.219 %Abs	RK1:27->A02@2	
ATX Std 4	0.346 Abs [0.3585] {4.9 CV}	2.435 µg/L [2.318] {7.2 CV}	R^2=0.99928, 25.385 %Abs	RK1:27->B02@2	
ATX Std 5	0.202 Abs	4.991 µg/L	R^2=0.99928, 14.820 %Abs	RK1:28->C02@2	
ATX Std 5	0.180 Abs [0.1910] {8.1 CV}	> 5.000 µg/L [4.991]	13.206 %Abs	RK1:28->D02@2	

7/23/2025 10:46:11 AM					
ATX Control	0.701 Abs	0.717 µg/L	51.431 %Abs	RK1:29->E02@2	
ATX Control	0.706 Abs [0.7035] {0.5 CV}	0.706 µg/L [0.712] {1.1 CV}	51.798 %Abs [51.614 %Abs]	RK1:29->F02@3	

Statistic					
ATX Std 0 [MEAN]	1.3625	0.0020			
ATX Std 0 [SD]	0.0092	0.0028			
ATX Std 0 [%CV]	0.6747	141.4214			
ATX Std 1 [MEAN]	1.1270	0.1430			
ATX Std 1 [SD]	0.0495	0.0382			
ATX Std 1 [%CV]	4.3920	26.7019			
ATX Std 1 [%DIFF]		-4.6667			
ATX Std 2 [MEAN]	0.8710	0.4120			
ATX Std 2 [SD]	0.0099	0.0141			
ATX Std 2 [%CV]	1.1366	3.4326			
ATX Std 2 [%DIFF]		3.0000			
ATX Std 3 [MEAN]	0.5885	1.0265			
ATX Std 3 [SD]	0.0177	0.0587			
ATX Std 3 [%CV]	3.0039	5.7175			
ATX Std 3 [%DIFF]		2.6500			
ATX Std 4 [MEAN]	0.3585	2.3175			
ATX Std 4 [SD]	0.0177	0.1662			
ATX Std 4 [%CV]	4.9310	7.1702			
ATX Std 4 [%DIFF]		-7.3000			
ATX Std 5 [MEAN]	0.1910				
ATX Std 5 [SD]	0.0156				
ATX Std 5 [%CV]	8.1447				

Name	Absorbance	Concentration	Interpretation	Position	
ATX Control [MEAN]	0.7035	0.7115			
ATX Control [SD]	0.0035	0.0078			
ATX Control [%CV]	0.5026	1.0932			

Assay Curve

y = (A-D)/(1+(x/C)^B) + D
Weight: NONE
A = 1.3659
B = 0.92306
C = 0.76397
D = -0.0038255
R2 coef = 0.99928
50% = 0.763

