



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB49907	Summit Lake - State Park	5/24/2022	5/25/2022	< 0.30
AB49908	Kunkel Beach @ Oubache State Park	5/24/2022	5/25/2022	< 0.30
AB49909	Pokagon State Park	5/23/2022	5/25/2022	< 0.30
AB49910	Potawatomi Inn's Beach	5/23/2022	5/25/2022	< 0.30
AB49911	Chain O'Lakes SP	5/23/2022	5/25/2022	< 0.30
AB49912	Potato Creek State Park	5/23/2022	5/25/2022	< 0.30
AB49913	Lost Bridge West SRA	5/24/2022	5/25/2022	< 0.30
AB49914	Mississinewa Lake Miami SRA	5/24/2022	5/25/2022	< 0.30
AB49915	Field Blank	5/24/2022	5/25/2022	< 0.30
AB49916	Lost Bridge West SRA (Field Dup)	5/24/2022	5/25/2022	< 0.30
AB51248	Lincoln State Park	5/23/2022	5/25/2022	< 0.30
AB51249	Ferdinand State Forest Lake	5/23/2022	5/25/2022	< 0.30
AB51250	Patoka SRA Beach	5/23/2022	5/25/2022	< 0.30

Test Information

Request: 5/25/2022 3:31:26 PM
Date: 5/25/2022 - 5/26/2022

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
MCT Std 0	MICROCYSTINS ADDA 54	1.383 Abs	0.000 µg/L	R^2=0.99664, 101.6			M22B127(
MCT Std 0	MICROCYSTINS ADDA 54	1.337 Abs [1.3600] {2.4 C	0.015 µg/L [0.007]	R^2=0.99664, 98.30			M22B127(
MCT Std 1	MICROCYSTINS ADDA 54	1.158 Abs	0.113 µg/L	R^2=0.99664, 85.14			M22B127(
MCT Std 1	MICROCYSTINS ADDA 54	1.086 Abs [1.1220] {4.5 C	0.160 µg/L [0.137]	R^2=0.99664, 79.85			M22B127(
MCT Std 2	MICROCYSTINS ADDA 54	0.809 Abs	0.430 µg/L	R^2=0.99664, 59.48			M22B127(
MCT Std 2	MICROCYSTINS ADDA 54	0.801 Abs [0.8050] {0.7 C	0.441 µg/L [0.436]	R^2=0.99664, 58.85			M22B127(
MCT Std 3	MICROCYSTINS ADDA 54	0.568 Abs	0.963 µg/L	R^2=0.99664, 41.76			M22B127(
MCT Std 3	MICROCYSTINS ADDA 54	0.539 Abs [0.5535] {3.7 C	1.076 µg/L [1.020]	R^2=0.99664, 39.63			M22B127(
MCT Std 4	MICROCYSTINS ADDA 54	0.455 Abs	1.543 µg/L	R^2=0.99664, 33.45			M22B127(
MCT Std 4	MICROCYSTINS ADDA 54	0.426 Abs [0.4405] {4.7 C	1.783 µg/L [1.663]	R^2=0.99664, 31.32			M22B127(
MCT Std 5	MICROCYSTINS ADDA 54	0.267 Abs	> 5.000 µg/L	19.632 %Abs			M22B127(
MCT Std 5	MICROCYSTINS ADDA 54	0.271 Abs [0.2690] {1.1 C	> 5.000 µg/L	19.926 %Abs			M22B127(
MCT 546 LRB 1	MICROCYSTINS ADDA 54	1.229 Abs	0.072 µg/L	90.368 %Abs			M22B127(
MCT 546 LRB 1	MICROCYSTINS ADDA 54	1.266 Abs [1.2475] {2.1 C	0.052 µg/L [0.062]	93.088 %Abs [91.7			M22B127(
MCT 546 Low-CV	MICROCYSTINS ADDA 54	0.831 Abs	0.400 µg/L	61.103 %Abs			M22B127(
MCT 546 Low-CV	MICROCYSTINS ADDA 54	0.828 Abs [0.8295] {0.3 C	0.404 µg/L [0.402]	60.882 %Abs [60.9			M22B127(
MCT 546 LFB 1	MICROCYSTINS ADDA 54	0.799 Abs	0.443 µg/L	58.750 %Abs			M22B127(
MCT 546 LFB 1	MICROCYSTINS ADDA 54	0.744 Abs [0.7715] {5.0 C	0.529 µg/L [0.486]	54.706 %Abs [56.7			M22B127(

Note

Signature

David Jordan

David Jordan 5/25/2022

Test Information

Request: 5/25/2022 3:32:31 PM
Date: 5/25/2022 - 5/26/2022

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
AB49907	MICROCYSTINS ADDA 54	1.265 Abs	0.052 µg/L	Low, 93.015 %Abs		0.300 - 5.000	M22B127(
AB49907	MICROCYSTINS ADDA 54	1.253 Abs [1.2590] {0.7 C	0.059 µg/L [0.056]			0.300 - 5.000	M22B127(
AB49908	MICROCYSTINS ADDA 54	1.215 Abs	0.079 µg/L	Low, 89.338 %Abs		0.300 - 5.000	M22B127(
AB49908	MICROCYSTINS ADDA 54	1.205 Abs [1.2100] {0.6 C	0.085 µg/L [0.082]			0.300 - 5.000	M22B127(
AB49909	MICROCYSTINS ADDA 54	1.230 Abs	0.071 µg/L	Low, 90.441 %Abs		0.300 - 5.000	M22B127(
AB49909	MICROCYSTINS ADDA 54	1.233 Abs [1.2315] {0.2 C	0.069 µg/L [0.070]			0.300 - 5.000	M22B127(
AB49910	MICROCYSTINS ADDA 54	1.335 Abs	0.016 µg/L	Low, 98.162 %Abs		0.300 - 5.000	M22B127(
AB49910	MICROCYSTINS ADDA 54	1.218 Abs [1.2765] {6.5 C	0.078 µg/L [0.047]			0.300 - 5.000	M22B127(
AB49910MS	MICROCYSTINS ADDA 54	0.693 Abs	0.624 µg/L	50.956 %Abs		0.300 - 5.000	M22B127(
AB49910MS	MICROCYSTINS ADDA 54	0.653 Abs [0.6730] {4.2 C	0.713 µg/L [0.669]	48.015 %Abs [49.4		0.300 - 5.000	M22B127(
AB49910MSD	MICROCYSTINS ADDA 54	0.700 Abs	0.610 µg/L	51.471 %Abs		0.300 - 5.000	M22B127(
AB49910MSD	MICROCYSTINS ADDA 54	0.684 Abs [0.6920] {1.6 C	0.643 µg/L [0.627]	50.294 %Abs [50.8		0.300 - 5.000	M22B127(
AB49911	MICROCYSTINS ADDA 54	1.161 Abs	0.111 µg/L	Low, 85.368 %Abs		0.300 - 5.000	M22B127(
AB49911	MICROCYSTINS ADDA 54	0.892 Abs [1.0265] {18.5	0.328 µg/L [0.220]			0.300 - 5.000	M22B127(
AB49912	MICROCYSTINS ADDA 54	1.256 Abs	0.057 µg/L	Low, 92.353 %Abs		0.300 - 5.000	M22B127(
AB49912	MICROCYSTINS ADDA 54	1.179 Abs [1.2175] {4.5 C	0.100 µg/L [0.079]			0.300 - 5.000	M22B127(
AB49913	MICROCYSTINS ADDA 54	1.178 Abs	0.101 µg/L	Low, 86.618 %Abs		0.300 - 5.000	M22B127(
AB49913	MICROCYSTINS ADDA 54	1.198 Abs [1.1880] {1.2 C	0.089 µg/L [0.095]			0.300 - 5.000	M22B127(
AB49914	MICROCYSTINS ADDA 54	1.207 Abs	0.084 µg/L	Low, 88.750 %Abs		0.300 - 5.000	M22B127(
AB49914	MICROCYSTINS ADDA 54	1.204 Abs [1.2055] {0.2 C	0.086 µg/L [0.085]			0.300 - 5.000	M22B127(
AB49915	MICROCYSTINS ADDA 54	1.214 Abs	0.080 µg/L	Low, 89.265 %Abs		0.300 - 5.000	M22B127(
AB49915	MICROCYSTINS ADDA 54	1.222 Abs [1.2180] {0.5 C	0.075 µg/L [0.078]			0.300 - 5.000	M22B127(
AB49916	MICROCYSTINS ADDA 54	1.192 Abs	0.093 µg/L	Low, 87.647 %Abs		0.300 - 5.000	M22B127(
AB49916	MICROCYSTINS ADDA 54	1.281 Abs [1.2365] {5.1 C	0.044 µg/L [0.068]			0.300 - 5.000	M22B127(
AB51248	MICROCYSTINS ADDA 54	1.202 Abs	0.087 µg/L	Low, 88.382 %Abs		0.300 - 5.000	M22B127(
AB51248	MICROCYSTINS ADDA 54	1.218 Abs [1.2100] {0.9 C	0.078 µg/L [0.082]			0.300 - 5.000	M22B127(
AB51249	MICROCYSTINS ADDA 54	1.204 Abs	0.086 µg/L	Low, 88.529 %Abs		0.300 - 5.000	M22B127(
AB51249	MICROCYSTINS ADDA 54	1.181 Abs [1.1925] {1.4 C	0.099 µg/L [0.093]			0.300 - 5.000	M22B127(
AB51250	MICROCYSTINS ADDA 54	1.238 Abs	0.067 µg/L	Low, 91.029 %Abs		0.300 - 5.000	M22B127(
AB51250	MICROCYSTINS ADDA 54	1.232 Abs [1.2350] {0.3 C	0.070 µg/L [0.068]			0.300 - 5.000	M22B127(
LFB 2	MICROCYSTINS ADDA 54	0.795 Abs	0.449 µg/L	58.456 %Abs		0.300 - 5.000	M22B127(
LFB 2	MICROCYSTINS ADDA 54	0.737 Abs [0.7660] {5.4 C	0.541 µg/L [0.495]	54.191 %Abs [56.3		0.300 - 5.000	M22B127(
LRB 2	MICROCYSTINS ADDA 54	1.289 Abs	0.040 µg/L	Low, 94.779 %Abs		0.300 - 5.000	M22B127(
LRB 2	MICROCYSTINS ADDA 54	1.238 Abs [1.2635] {2.9 C	0.067 µg/L [0.054]			0.300 - 5.000	M22B127(

Note

The %CV of absorption was > 15.0% for AB49911. AB49911 was reanalyzed on 5/26/2022 and the %CV was acceptable.

Signature 

David Jordan 5/25/2022

Assay Information

Assay Name: MICROCYSTINS ADDA 546_

Version: 2

Temperature: Room Temperature

Last Modified By: Security disabled

Units: µg/L

Assay Description:

Assay Substances:

Controls:

MCT 546 LRB 1

MCT 546 Low-CV

MCT 546 LFB 1

Standards:

MCT Std 0, Concentration = 0.000, Minimum number to use: 2

MCT Std 1, Concentration = 0.150, Minimum number to use: 2

MCT Std 2, Concentration = 0.400, Minimum number to use: 2

MCT Std 3, Concentration = 1.000, Minimum number to use: 2

MCT Std 4, Concentration = 2.000, Minimum number to use: 2

MCT 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: 9/30/2020 10:02:13 AM

Normal: 0.300 - 5.000

of decimals: 3

Kit Lot Number: M22B1270

Assay Calibration

Current Calibration Status: "

"

Name	Absorbance	Concentration	Interpretation	Position	
5/25/2022 3:31:26 PM					
MCT Std 0	1.383 Abs	0.000 µg/L	R ² =0.99664, 101.691 %Abs	RK1:23->A01@2	
MCT Std 0	1.337 Abs [1.3600] {2.4 CV}	0.015 µg/L [0.007] {141.4 CV}	R ² =0.99664, 98.309 %Abs	RK1:23->B01@2	
MCT Std 1	1.158 Abs	0.113 µg/L	R ² =0.99664, 85.147 %Abs	RK1:24->C01@2	
MCT Std 1	1.086 Abs [1.1220] {4.5 CV}	0.160 µg/L [0.137] {24.3 CV}	R ² =0.99664, 79.853 %Abs	RK1:24->D01@2	
MCT Std 2	0.809 Abs	0.430 µg/L	R ² =0.99664, 59.485 %Abs	RK1:25->E01@2	
MCT Std 2	0.801 Abs [0.8050] {0.7 CV}	0.441 µg/L [0.436] {1.8 CV}	R ² =0.99664, 58.897 %Abs	RK1:25->F01@3	
MCT Std 3	0.568 Abs	0.963 µg/L	R ² =0.99664, 41.765 %Abs	RK1:26->G01@3	
MCT Std 3	0.539 Abs [0.5535] {3.7 CV}	1.076 µg/L [1.020] {7.8 CV}	R ² =0.99664, 39.632 %Abs	RK1:26->H01@3	
MCT Std 4	0.455 Abs	1.543 µg/L	R ² =0.99664, 33.456 %Abs	RK1:27->A02@2	
MCT Std 4	0.426 Abs [0.4405] {4.7 CV}	1.783 µg/L [1.663] {10.2 CV}	R ² =0.99664, 31.324 %Abs	RK1:27->B02@2	
MCT Std 5	0.267 Abs	> 5.000 µg/L	19.632 %Abs	RK1:28->C02@2	
MCT Std 5	0.271 Abs [0.2690] {1.1 CV}	> 5.000 µg/L	19.926 %Abs	RK1:28->D02@2	

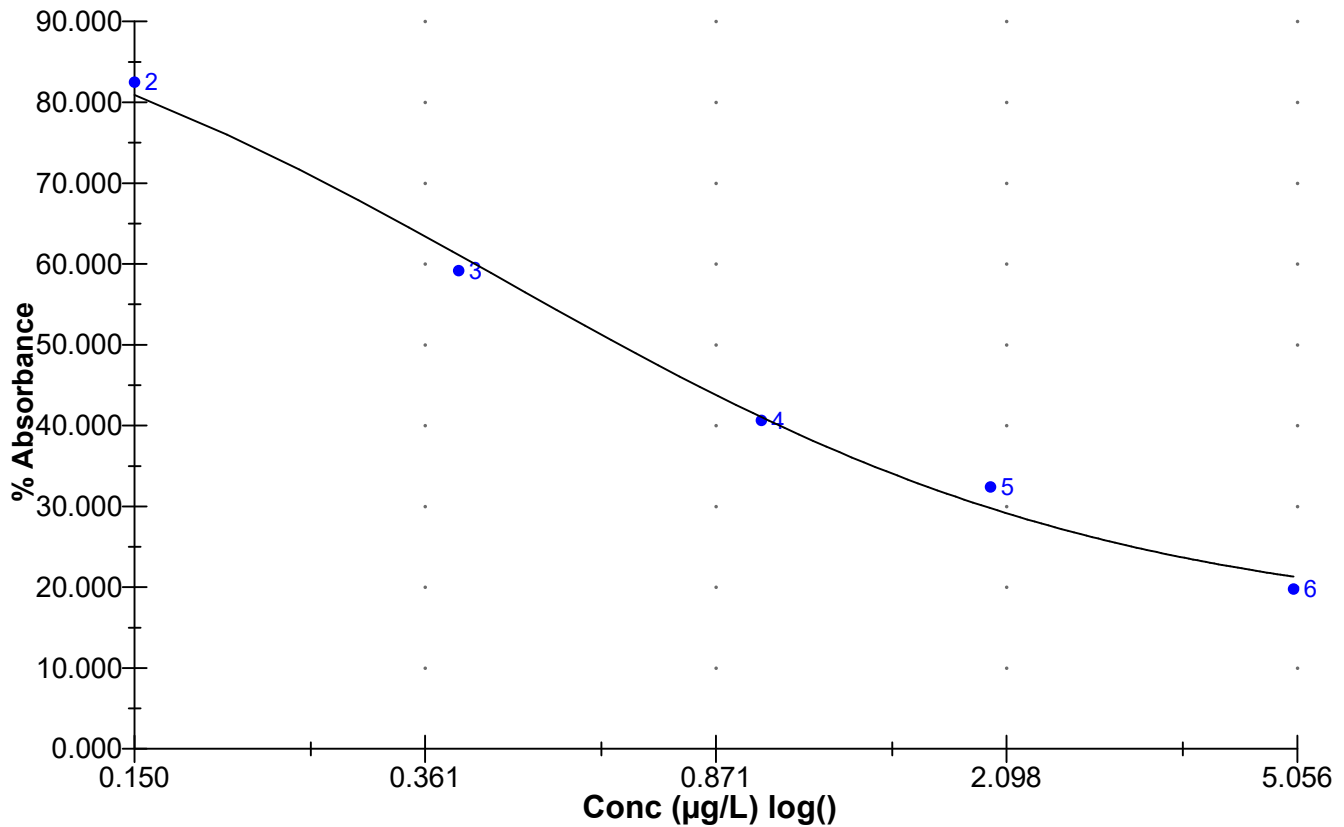
5/25/2022 3:31:26 PM					
MCT 546 LRB 1	1.229 Abs	0.072 µg/L	90.368 %Abs	RK1:29->E02@2	
MCT 546 LRB 1	1.266 Abs [1.2475] {2.1 CV}	0.052 µg/L [0.062] {22.8 CV}	93.088 %Abs [91.728 %Abs]	RK1:29->F02@3	
MCT 546 Low-CV	0.831 Abs	0.400 µg/L	61.103 %Abs	RK1:30->G02@3	
MCT 546 Low-CV	0.828 Abs [0.8295] {0.3 CV}	0.404 µg/L [0.402] {0.7 CV}	60.882 %Abs [60.993 %Abs]	RK1:30->H02@3	
MCT 546 LFB 1	0.799 Abs	0.443 µg/L	58.750 %Abs	RK1:31->A03@2	
MCT 546 LFB 1	0.744 Abs [0.7715] {5.0 CV}	0.529 µg/L [0.486] {12.5 CV}	54.706 %Abs [56.728 %Abs]	RK1:31->B03@2	

Statistic					
MCT Std 0 [MEAN]	1.3600	0.0075			
MCT Std 0 [SD]	0.0325	0.0106			
MCT Std 0 [%CV]	2.3917	141.4214			
MCT Std 1 [MEAN]	1.1220	0.1365			
MCT Std 1 [SD]	0.0509	0.0332			
MCT Std 1 [%CV]	4.5376	24.3473			
MCT Std 1 [%DIFF]		-9.0000			
MCT Std 2 [MEAN]	0.8050	0.4355			
MCT Std 2 [SD]	0.0057	0.0078			
MCT Std 2 [%CV]	0.7027	1.7860			
MCT Std 2 [%DIFF]		8.8750			
MCT Std 3 [MEAN]	0.5535	1.0195			
MCT Std 3 [SD]	0.0205	0.0799			
MCT Std 3 [%CV]	3.7048	7.8375			
MCT Std 3 [%DIFF]		1.9500			
MCT Std 4 [MEAN]	0.4405	1.6630			

Name	Absorbance	Concentration	Interpretation	Position
MCT Std 4 [SD]	0.0205	0.1697		
MCT Std 4 [%CV]	4.6552	10.2048		
MCT Std 4 [%DIFF]		-16.8500		
MCT Std 5 [MEAN]	0.2690			
MCT Std 5 [SD]	0.0028			
MCT Std 5 [%CV]	1.0515			
MCT 546 LRB 1 [MEAN]	1.2475	0.0620		
MCT 546 LRB 1 [SD]	0.0262	0.0141		
MCT 546 LRB 1 [%CV]	2.0972	22.8099		
MCT 546 Low-CV [MEAN]	0.8295	0.4020		
MCT 546 Low-CV [SD]	0.0021	0.0028		
MCT 546 Low-CV [%CV]	0.2557	0.7036		
MCT 546 LFB 1 [MEAN]	0.7715	0.4860		
MCT 546 LFB 1 [SD]	0.0389	0.0608		
MCT 546 LFB 1 [%CV]	5.0409	12.5126		

Assay Curve

$y = (A-D)/(1+(x/C)^B) + D$
 Weight: NONE
 A = 1.3658
 B = 1.0792
 C = 0.46130
 D = 0.20759
 R2 coef = 0.99664
 50% = 0.652



Test Information

Request: 5/26/2022 11:26:30 AM
Date: 5/26/2022

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
MCT Std 0	MICROCYSTINS ADDA 54	1.609 Abs	0.000 µg/L	R ² =0.99937, 99.56			M21F532 ¹
MCT Std 0	MICROCYSTINS ADDA 54	1.624 Abs [1.6165] {0.7 C	0.000 µg/L [0.000]	R ² =0.99937, 100.4			M21F532 ¹
MCT Std 1	MICROCYSTINS ADDA 54	1.448 Abs	0.146 µg/L	R ² =0.99937, 89.60			M21F532 ¹
MCT Std 1	MICROCYSTINS ADDA 54	1.402 Abs [1.4250] {2.3 C	0.182 µg/L [0.164]	R ² =0.99937, 86.75			M21F532 ¹
MCT Std 2	MICROCYSTINS ADDA 54	1.201 Abs	0.357 µg/L	R ² =0.99937, 74.31			M21F532 ¹
MCT Std 2	MICROCYSTINS ADDA 54	1.151 Abs [1.1760] {3.0 C	0.408 µg/L [0.382]	R ² =0.99937, 71.22			M21F532 ¹
MCT Std 3	MICROCYSTINS ADDA 54	0.776 Abs	1.001 µg/L	R ² =0.99937, 48.02			M21F532 ¹
MCT Std 3	MICROCYSTINS ADDA 54	0.763 Abs [0.7695] {1.2 C	1.035 µg/L [1.018]	R ² =0.99937, 47.21			M21F532 ¹
MCT Std 4	MICROCYSTINS ADDA 54	0.538 Abs	2.048 µg/L	R ² =0.99937, 33.25			M21F532 ¹
MCT Std 4	MICROCYSTINS ADDA 54	0.540 Abs [0.5390] {0.3 C	2.033 µg/L [2.041]	R ² =0.99937, 33.41			M21F532 ¹
MCT Std 5	MICROCYSTINS ADDA 54	0.396 Abs	4.423 µg/L	R ² =0.99937, 24.50			M21F532 ¹
MCT Std 5	MICROCYSTINS ADDA 54	0.378 Abs [0.3870] {3.3 C	> 5.000 µg/L [4.42	23.391 %Abs			M21F532 ¹
MCT 546 LRB 1	MICROCYSTINS ADDA 54	1.591 Abs	0.025 µg/L	98.453 %Abs			M21F532 ¹
MCT 546 LRB 1	MICROCYSTINS ADDA 54	1.538 Abs [1.5645] {2.4 C	0.074 µg/L [0.049]	95.173 %Abs [96.8			M21F532 ¹
MCT 546 Low-CV	MICROCYSTINS ADDA 54	1.116 Abs	0.445 µg/L	69.059 %Abs			M21F532 ¹
MCT 546 Low-CV	MICROCYSTINS ADDA 54	1.098 Abs [1.1070] {1.1 C	0.465 µg/L [0.455]	67.946 %Abs [68.5			M21F532 ¹
MCT 546 LFB 1	MICROCYSTINS ADDA 54	0.976 Abs	0.622 µg/L	60.396 %Abs			M21F532 ¹
MCT 546 LFB 1	MICROCYSTINS ADDA 54	0.955 Abs [0.9655] {1.5 C	0.653 µg/L [0.637]	59.097 %Abs [59.7			M21F532 ¹
AB49911	MICROCYSTINS ADDA 54	1.542 Abs	0.070 µg/L	Low, 95.421 %Abs		0.300 - 5.000	M21F532 ¹
AB49911	MICROCYSTINS ADDA 54	1.517 Abs [1.5295] {1.2 C	0.091 µg/L [0.080]	Low, 93.874 %Abs		0.300 - 5.000	M21F532 ¹
LFB 2	MICROCYSTINS ADDA 54	0.978 Abs	0.619 µg/L	60.520 %Abs		0.300 - 5.000	M21F532 ¹
LFB 2	MICROCYSTINS ADDA 54	0.924 Abs [0.9510] {4.0 C	0.702 µg/L [0.661]	57.178 %Abs [58.8		0.300 - 5.000	M21F532 ¹
LRB 2	MICROCYSTINS ADDA 54	1.635 Abs	0.000 µg/L	Low, 101.176 %Abs		0.300 - 5.000	M21F532 ¹
LRB 2	MICROCYSTINS ADDA 54	1.602 Abs [1.6185] {1.4 C	0.012 µg/L [0.006]	Low, 99.134 %Abs		0.300 - 5.000	M21F532 ¹

Note

Signature 

David Jordan 5/26/2022

Assay Information

Assay Name: MICROCYSTINS ADDA 546_

Version: 2

Temperature: Room Temperature

Last Modified By: Security disabled

Units: µg/L

Assay Description:

Assay Substances:

Controls:

MCT 546 LRB 1

MCT 546 Low-CV

MCT 546 LFB 1

Standards:

MCT Std 0, Concentration = 0.000, Minimum number to use: 2

MCT Std 1, Concentration = 0.150, Minimum number to use: 2

MCT Std 2, Concentration = 0.400, Minimum number to use: 2

MCT Std 3, Concentration = 1.000, Minimum number to use: 2

MCT Std 4, Concentration = 2.000, Minimum number to use: 2

MCT 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: 9/30/2020 10:02:13 AM

Normal: 0.300 - 5.000

of decimals: 3

Kit Lot Number: M21F5321

Assay Calibration

Current Calibration Status: "

"

Name	Absorbance	Concentration	Interpretation	Position	
5/26/2022 11:26:30 AM					
MCT Std 0	1.609 Abs	0.000 µg/L	R ² =0.99937, 99.567 %Abs	RK1:23->A01@2	
MCT Std 0	1.624 Abs [1.6165] {0.7 CV}	0.000 µg/L [0.000]	R ² =0.99937, 100.495 %Abs	RK1:23->B01@2	
MCT Std 1	1.448 Abs	0.146 µg/L	R ² =0.99937, 89.604 %Abs	RK1:24->C01@2	
MCT Std 1	1.402 Abs [1.4250] {2.3 CV}	0.182 µg/L [0.164] {15.5 CV}	R ² =0.99937, 86.757 %Abs	RK1:24->D01@2	
MCT Std 2	1.201 Abs	0.357 µg/L	R ² =0.99937, 74.319 %Abs	RK1:25->E01@2	
MCT Std 2	1.151 Abs [1.1760] {3.0 CV}	0.408 µg/L [0.382] {9.4 CV}	R ² =0.99937, 71.225 %Abs	RK1:25->F01@3	
MCT Std 3	0.776 Abs	1.001 µg/L	R ² =0.99937, 48.020 %Abs	RK1:26->G01@3	
MCT Std 3	0.763 Abs [0.7695] {1.2 CV}	1.035 µg/L [1.018] {2.4 CV}	R ² =0.99937, 47.215 %Abs	RK1:26->H01@3	
MCT Std 4	0.538 Abs	2.048 µg/L	R ² =0.99937, 33.292 %Abs	RK1:27->A02@2	
MCT Std 4	0.540 Abs [0.5390] {0.3 CV}	2.033 µg/L [2.041] {0.5 CV}	R ² =0.99937, 33.416 %Abs	RK1:27->B02@2	
MCT Std 5	0.396 Abs	4.423 µg/L	R ² =0.99937, 24.505 %Abs	RK1:28->C02@2	
MCT Std 5	0.378 Abs [0.3870] {3.3 CV}	> 5.000 µg/L [4.423]	23.391 %Abs	RK1:28->D02@2	

5/26/2022 11:26:30 AM					
MCT 546 LRB 1	1.591 Abs	0.025 µg/L	98.453 %Abs	RK1:29->E02@2	
MCT 546 LRB 1	1.538 Abs [1.5645] {2.4 CV}	0.074 µg/L [0.049] {70.0 CV}	95.173 %Abs [96.813 %Abs]	RK1:29->F02@3	
MCT 546 Low-CV	1.116 Abs	0.445 µg/L	69.059 %Abs	RK1:30->G02@3	
MCT 546 Low-CV	1.098 Abs [1.1070] {1.1 CV}	0.465 µg/L [0.455] {3.1 CV}	67.946 %Abs [68.502 %Abs]	RK1:30->H02@3	
MCT 546 LFB 1	0.976 Abs	0.622 µg/L	60.396 %Abs	RK1:31->A03@2	
MCT 546 LFB 1	0.955 Abs [0.9655] {1.5 CV}	0.653 µg/L [0.637] {3.4 CV}	59.097 %Abs [59.746 %Abs]	RK1:31->B03@2	

Statistic					
MCT Std 0 [MEAN]	1.6165	0.0000			
MCT Std 0 [SD]	0.0106	0.0000			
MCT Std 0 [%CV]	0.6561	0.0000			
MCT Std 1 [MEAN]	1.4250	0.1640			
MCT Std 1 [SD]	0.0325	0.0255			
MCT Std 1 [%CV]	2.2826	15.5219			
MCT Std 1 [%DIFF]		9.3333			
MCT Std 2 [MEAN]	1.1760	0.3825			
MCT Std 2 [SD]	0.0354	0.0361			
MCT Std 2 [%CV]	3.0064	9.4281			
MCT Std 2 [%DIFF]		-4.3750			
MCT Std 3 [MEAN]	0.7695	1.0180			
MCT Std 3 [SD]	0.0092	0.0240			
MCT Std 3 [%CV]	1.1946	2.3616			
MCT Std 3 [%DIFF]		1.8000			
MCT Std 4 [MEAN]	0.5390	2.0405			

Name	Absorbance	Concentration	Interpretation	Position
MCT Std 4 [SD]	0.0014	0.0106		
MCT Std 4 [%CV]	0.2624	0.5198		
MCT Std 4 [%DIFF]		2.0250		
MCT Std 5 [MEAN]	0.3870			
MCT Std 5 [SD]	0.0127			
MCT Std 5 [%CV]	3.2889			
MCT 546 LRB 1 [MEAN]	1.5645	0.0495		
MCT 546 LRB 1 [SD]	0.0375	0.0346		
MCT 546 LRB 1 [%CV]	2.3954	69.9964		
MCT 546 Low-CV [MEAN]	1.1070	0.4550		
MCT 546 Low-CV [SD]	0.0127	0.0141		
MCT 546 Low-CV [%CV]	1.1498	3.1082		
MCT 546 LFB 1 [MEAN]	0.9655	0.6375		
MCT 546 LFB 1 [SD]	0.0148	0.0219		
MCT 546 LFB 1 [%CV]	1.5380	3.4385		

Assay Curve

$$y = (A-D)/(1+(x/C)^B) + D$$

Weight: NONE

A = 1.6090

B = 1.3073

C = 0.65722

D = 0.29565

R2 coef = 0.99937

50% = 0.925

