



## Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

| Sample # | Location                                               | Date Collected | Date Analyzed | Conc. (ppb) |
|----------|--------------------------------------------------------|----------------|---------------|-------------|
| AC45796  | Pokagon SP - Main Beach                                | 7/14/2025      | 7/16/2025     | < 0.30      |
| AC45797  | Pokagon SP - Potawatomi Inn Beach                      | 7/14/2025      | 7/16/2025     | < 0.30      |
| AC45798  | Chain O'Lakes SP - Sand Lake Beach                     | 7/14/2025      | 7/16/2025     | < 0.30      |
| AC45799  | Ouabache SP - Kunkel Lake Beach                        | 7/14/2025      | 7/16/2025     | < 0.30      |
| AC45800  | Potato Creek SP - Worster Lake Beach                   | 7/15/2025      | 7/16/2025     | < 0.30      |
| AC45801  | Mississinewa Lake - Miami SRA Beach                    | 7/15/2025      | 7/17/2025     | 3.78        |
| AC45802  | Salamonie Lake - Lost Bridge West SRA Beach            | 7/15/2025      | 7/16/2025     | 2.57        |
| AC45803  | Summit Lake SP - Summit Lake Beach                     | 7/15/2025      | 7/16/2025     | < 0.30      |
| AC45804  | Potato Creek SP - Worster Lake Beach (Field Duplicate) | 7/14/2025      | 7/16/2025     | < 0.30      |
| AC45805  | Field Blank                                            | 7/14/2025      | 7/16/2025     | < 0.30      |
| AC45806  | Ferdinand State Forest - Ferdinand Lake Beach          | 7/14/2025      | 7/16/2025     | < 0.30      |
| AC45807  | Patoka Lake - Newton Stewart SRA                       | 7/14/2025      | 7/16/2025     | < 0.30      |

# Test Report (by Request)

## Test Information

Request: 7/16/2025 3:17:45 PM  
Date: 7/16/2025

| Name/ID        | Assay                | Absorbance                | Concentration      | Interpretation     | Note | Reference | Lot#       |
|----------------|----------------------|---------------------------|--------------------|--------------------|------|-----------|------------|
| MCT Std 0      | MICROCYSTINS ADDA 54 | 1.494 Abs                 | 0.000 µg/L         | R^2=0.99674, 101.3 |      | 0.000     | Kit:25085( |
| MCT Std 0      | MICROCYSTINS ADDA 54 | 1.453 Abs [1.4735] {2.0 C | 0.027 µg/L [0.014] | R^2=0.99674, 98.57 |      | 0.000     | Kit:25085( |
| MCT Std 1      | MICROCYSTINS ADDA 54 | 1.315 Abs                 | 0.127 µg/L         | R^2=0.99674, 89.21 |      | 0.150     | Kit:25085( |
| MCT Std 1      | MICROCYSTINS ADDA 54 | 1.242 Abs [1.2785] {4.0 C | 0.177 µg/L [0.152] | R^2=0.99674, 84.26 |      | 0.150     | Kit:25085( |
| MCT Std 2      | MICROCYSTINS ADDA 54 | 0.975 Abs                 | 0.400 µg/L         | R^2=0.99674, 66.14 |      | 0.400     | Kit:25085( |
| MCT Std 2      | MICROCYSTINS ADDA 54 | 0.997 Abs [0.9860] {1.6 C | 0.377 µg/L [0.389] | R^2=0.99674, 67.63 |      | 0.400     | Kit:25085( |
| MCT Std 3      | MICROCYSTINS ADDA 54 | 0.650 Abs                 | 0.962 µg/L         | R^2=0.99674, 44.05 |      | 1.000     | Kit:25085( |
| MCT Std 3      | MICROCYSTINS ADDA 54 | 0.559 Abs [0.6045] {10.6  | 1.323 µg/L [1.143] | R^2=0.99674, 37.92 |      | 1.000     | Kit:25085( |
| MCT Std 4      | MICROCYSTINS ADDA 54 | 0.517 Abs                 | 1.581 µg/L         | R^2=0.99674, 35.07 |      | 2.000     | Kit:25085( |
| MCT Std 4      | MICROCYSTINS ADDA 54 | 0.508 Abs [0.5125] {1.2 C | 1.649 µg/L [1.615] | R^2=0.99674, 34.46 |      | 2.000     | Kit:25085( |
| MCT Std 5      | MICROCYSTINS ADDA 54 | 0.352 Abs                 | > 5.000 µg/L       | 23.881 %Abs        |      | 5.000     | Kit:25085( |
| MCT Std 5      | MICROCYSTINS ADDA 54 | 0.354 Abs [0.3530] {0.4 C | > 5.000 µg/L       | 24.016 %Abs        |      | 5.000     | Kit:25085( |
| MCT 546 LRB 1  | MICROCYSTINS ADDA 54 | 1.394 Abs                 | 0.072 µg/L         | 94.573 %Abs        |      |           | Kit:25085( |
| MCT 546 LRB 1  | MICROCYSTINS ADDA 54 | 1.417 Abs [1.4055] {1.2 C | 0.056 µg/L [0.064] | 96.133 %Abs [95.3  |      |           | Kit:25085( |
| MCT 546 Low-CV | MICROCYSTINS ADDA 54 | 0.969 Abs                 | 0.406 µg/L         | 65.739 %Abs        |      |           | Kit:25085( |
| MCT 546 Low-CV | MICROCYSTINS ADDA 54 | 0.894 Abs [0.9315] {5.7 C | 0.492 µg/L [0.449] | 60.651 %Abs [63.1  |      |           | Kit:25085( |
| MCT 546 LFB 1  | MICROCYSTINS ADDA 54 | 0.892 Abs                 | 0.495 µg/L         | 60.516 %Abs        |      |           | Kit:25085( |
| MCT 546 LFB 1  | MICROCYSTINS ADDA 54 | 0.872 Abs [0.8820] {1.6 C | 0.521 µg/L [0.508] | 59.159 %Abs [59.8  |      |           | Kit:25085( |

## Note

Signature

David Jordan

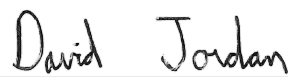
## Test Information

Request: 7/16/2025 3:19:21 PM  
Date: 7/16/2025

| Name/ID    | Assay                | Absorbance                | Concentration      | Interpretation     | Note | Reference     | Lot#       |
|------------|----------------------|---------------------------|--------------------|--------------------|------|---------------|------------|
| AC45796    | MICROCYSTINS ADDA 54 | 1.377 Abs                 | 0.084 µg/L         | Low, 93.419 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45796    | MICROCYSTINS ADDA 54 | 1.315 Abs [1.3460] {3.3 C | 0.127 µg/L [0.106] | Low, 89.213 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45797    | MICROCYSTINS ADDA 54 | 1.304 Abs                 | 0.134 µg/L         | Low, 88.467 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45797    | MICROCYSTINS ADDA 54 | 1.330 Abs [1.3170] {1.4 C | 0.117 µg/L [0.126] | Low, 90.231 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45798    | MICROCYSTINS ADDA 54 | 1.096 Abs                 | 0.287 µg/L         | Low, 74.355 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45798    | MICROCYSTINS ADDA 54 | 1.089 Abs [1.0925] {0.5 C | 0.293 µg/L [0.290] | Low, 73.881 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45799    | MICROCYSTINS ADDA 54 | 1.229 Abs                 | 0.186 µg/L         | Low, 83.379 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45799    | MICROCYSTINS ADDA 54 | 1.213 Abs [1.2210] {0.9 C | 0.197 µg/L [0.192] | Low, 82.293 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45800    | MICROCYSTINS ADDA 54 | 1.286 Abs                 | 0.146 µg/L         | Low, 87.246 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45800    | MICROCYSTINS ADDA 54 | 1.280 Abs [1.2830] {0.3 C | 0.151 µg/L [0.149] | Low, 86.839 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45801    | MICROCYSTINS ADDA 54 | 0.306 Abs                 | > 5.000 µg/L       | 20.760 %Abs, Out(l |      | 0.300 - 5.000 | Kit:25085( |
| AC45801    | MICROCYSTINS ADDA 54 | 0.301 Abs [0.3035] {1.2 C | > 5.000 µg/L       | 20.421 %Abs, Out(l |      | 0.300 - 5.000 | Kit:25085( |
| AC45802    | MICROCYSTINS ADDA 54 | 0.424 Abs                 | 2.753 µg/L         | 28.765 %Abs        |      | 0.300 - 5.000 | Kit:25085( |
| AC45802    | MICROCYSTINS ADDA 54 | 0.443 Abs [0.4335] {3.1 C | 2.388 µg/L [2.571] | 30.054 %Abs [29.4  |      | 0.300 - 5.000 | Kit:25085( |
| AC45803    | MICROCYSTINS ADDA 54 | 1.334 Abs                 | 0.114 µg/L         | Low, 90.502 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45803    | MICROCYSTINS ADDA 54 | 1.343 Abs [1.3385] {0.5 C | 0.108 µg/L [0.111] | Low, 91.113 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45803MS  | MICROCYSTINS ADDA 54 | 0.853 Abs                 | 0.547 µg/L         | 57.870 %Abs        |      | 0.300 - 5.000 | Kit:25085( |
| AC45803MS  | MICROCYSTINS ADDA 54 | 0.837 Abs [0.8450] {1.3 C | 0.570 µg/L [0.559] | 56.784 %Abs [57.3  |      | 0.300 - 5.000 | Kit:25085( |
| AC45803MSD | MICROCYSTINS ADDA 54 | 0.845 Abs                 | 0.558 µg/L         | 57.327 %Abs        |      | 0.300 - 5.000 | Kit:25085( |
| AC45803MSD | MICROCYSTINS ADDA 54 | 0.853 Abs [0.8490] {0.7 C | 0.547 µg/L [0.553] | 57.870 %Abs [57.5  |      | 0.300 - 5.000 | Kit:25085( |
| AC45804    | MICROCYSTINS ADDA 54 | 1.213 Abs                 | 0.197 µg/L         | Low, 82.293 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45804    | MICROCYSTINS ADDA 54 | 1.251 Abs [1.2320] {2.2 C | 0.171 µg/L [0.184] | Low, 84.871 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45805    | MICROCYSTINS ADDA 54 | 1.444 Abs                 | 0.034 µg/L         | Low, 97.965 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45805    | MICROCYSTINS ADDA 54 | 1.426 Abs [1.4350] {0.9 C | 0.049 µg/L [0.042] | Low, 96.744 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45806    | MICROCYSTINS ADDA 54 | 1.175 Abs                 | 0.225 µg/L         | Low, 79.715 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45806    | MICROCYSTINS ADDA 54 | 1.125 Abs [1.1500] {3.1 C | 0.264 µg/L [0.245] | Low, 76.323 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45807    | MICROCYSTINS ADDA 54 | 1.324 Abs                 | 0.121 µg/L         | Low, 89.824 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| AC45807    | MICROCYSTINS ADDA 54 | 1.365 Abs [1.3445] {2.2 C | 0.093 µg/L [0.107] | Low, 92.605 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| LFB 2      | MICROCYSTINS ADDA 54 | 0.816 Abs                 | 0.602 µg/L         | 55.360 %Abs        |      | 0.300 - 5.000 | Kit:25085( |
| LFB 2      | MICROCYSTINS ADDA 54 | 0.709 Abs [0.7625] {9.9 C | 0.806 µg/L [0.704] | 48.100 %Abs [51.7  |      | 0.300 - 5.000 | Kit:25085( |
| LRB 2      | MICROCYSTINS ADDA 54 | 1.396 Abs                 | 0.071 µg/L         | Low, 94.708 %Abs   |      | 0.300 - 5.000 | Kit:25085( |
| LRB 2      | MICROCYSTINS ADDA 54 | 1.344 Abs [1.3700] {2.7 C | 0.107 µg/L [0.089] | Low, 91.180 %Abs   |      | 0.300 - 5.000 | Kit:25085( |

## Note

The analysis for sample number AC45801 was done for the second time on July 17, 2025 due to the first result being above the upper limit without a numerical result. A ten fold dilution was done and a numerical result for AC45801 is included included in the second analysis on this report on the seventh page.

Signature 

David Jordan 7/16/2025

## 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: Kit:2508506858

## Assay Calibration

Current Calibration Status: "

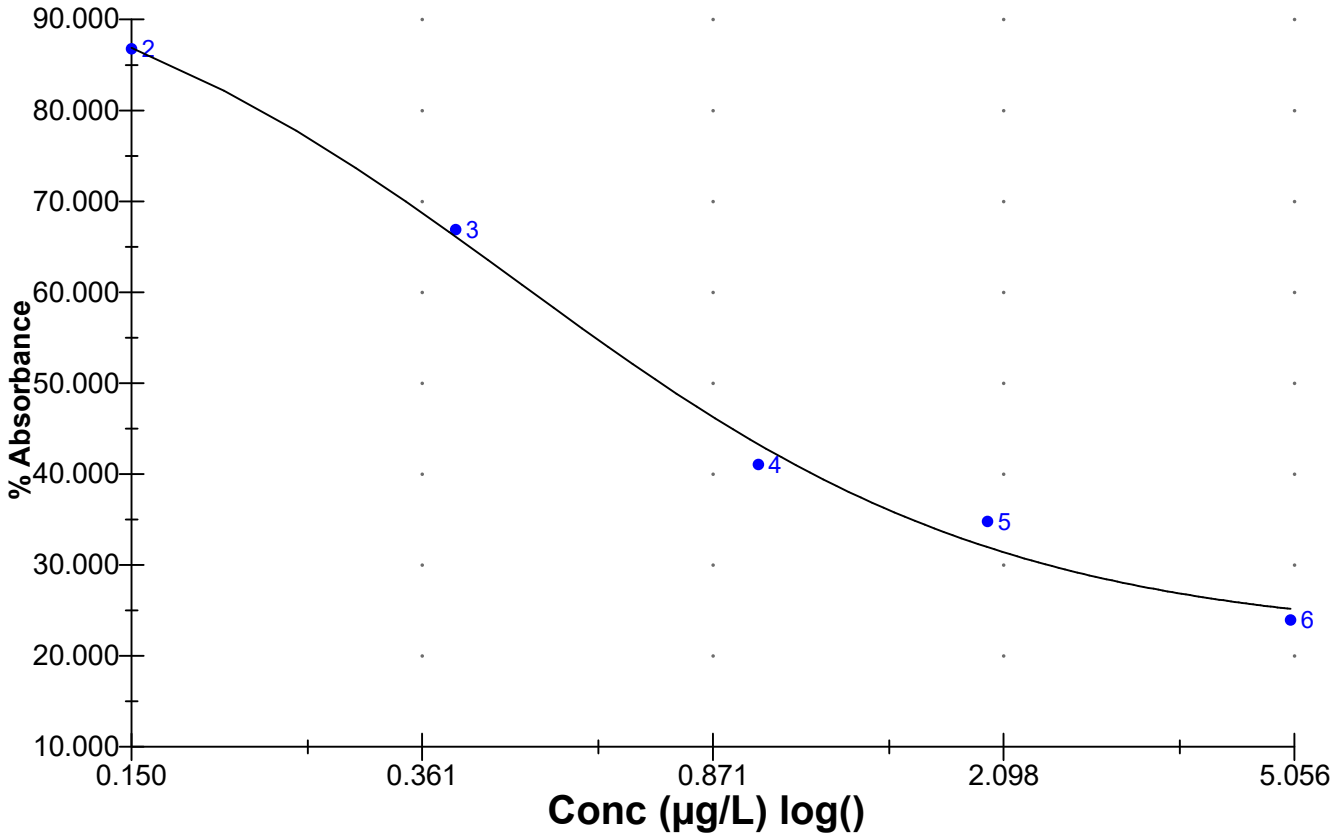
"

| Name                 | Absorbance                   | Concentration                 | Interpretation                        | Position      |  |
|----------------------|------------------------------|-------------------------------|---------------------------------------|---------------|--|
| 7/16/2025 3:17:45 PM |                              |                               |                                       |               |  |
| MCT Std 0            | 1.494 Abs                    | 0.000 µg/L                    | R <sup>2</sup> =0.99674, 101.357 %Abs | RK1:23->A01@2 |  |
| MCT Std 0            | 1.453 Abs [1.4735] {2.0 CV}  | 0.027 µg/L [0.014] {141.4 CV} | R <sup>2</sup> =0.99674, 98.575 %Abs  | RK1:23->B01@2 |  |
| MCT Std 1            | 1.315 Abs                    | 0.127 µg/L                    | R <sup>2</sup> =0.99674, 89.213 %Abs  | RK1:24->C01@2 |  |
| MCT Std 1            | 1.242 Abs [1.2785] {4.0 CV}  | 0.177 µg/L [0.152] {23.3 CV}  | R <sup>2</sup> =0.99674, 84.261 %Abs  | RK1:24->D01@2 |  |
| MCT Std 2            | 0.975 Abs                    | 0.400 µg/L                    | R <sup>2</sup> =0.99674, 66.147 %Abs  | RK1:25->E01@2 |  |
| MCT Std 2            | 0.997 Abs [0.9860] {1.6 CV}  | 0.377 µg/L [0.389] {4.2 CV}   | R <sup>2</sup> =0.99674, 67.639 %Abs  | RK1:25->F01@3 |  |
| MCT Std 3            | 0.650 Abs                    | 0.962 µg/L                    | R <sup>2</sup> =0.99674, 44.098 %Abs  | RK1:26->G01@3 |  |
| MCT Std 3            | 0.559 Abs [0.6045] {10.6 CV} | 1.323 µg/L [1.143] {22.3 CV}  | R <sup>2</sup> =0.99674, 37.924 %Abs  | RK1:26->H01@3 |  |
| MCT Std 4            | 0.517 Abs                    | 1.581 µg/L                    | R <sup>2</sup> =0.99674, 35.075 %Abs  | RK1:27->A02@2 |  |
| MCT Std 4            | 0.508 Abs [0.5125] {1.2 CV}  | 1.649 µg/L [1.615] {3.0 CV}   | R <sup>2</sup> =0.99674, 34.464 %Abs  | RK1:27->B02@2 |  |
| MCT Std 5            | 0.352 Abs                    | > 5.000 µg/L                  | 23.881 %Abs                           | RK1:28->C02@2 |  |
| MCT Std 5            | 0.354 Abs [0.3530] {0.4 CV}  | > 5.000 µg/L                  | 24.016 %Abs                           | RK1:28->D02@2 |  |
| *****                |                              |                               |                                       |               |  |
| 7/16/2025 3:17:45 PM |                              |                               |                                       |               |  |
| MCT 546 LRB 1        | 1.394 Abs                    | 0.072 µg/L                    | 94.573 %Abs                           | RK1:29->E02@2 |  |
| MCT 546 LRB 1        | 1.417 Abs [1.4055] {1.2 CV}  | 0.056 µg/L [0.064] {17.7 CV}  | 96.133 %Abs [95.353 %Abs]             | RK1:29->F02@3 |  |
| MCT 546 Low-CV       | 0.969 Abs                    | 0.406 µg/L                    | 65.739 %Abs                           | RK1:30->G02@3 |  |
| MCT 546 Low-CV       | 0.894 Abs [0.9315] {5.7 CV}  | 0.492 µg/L [0.449] {13.5 CV}  | 60.651 %Abs [63.195 %Abs]             | RK1:30->H02@3 |  |
| MCT 546 LFB 1        | 0.892 Abs                    | 0.495 µg/L                    | 60.516 %Abs                           | RK1:31->A03@2 |  |
| MCT 546 LFB 1        | 0.872 Abs [0.8820] {1.6 CV}  | 0.521 µg/L [0.508] {3.6 CV}   | 59.159 %Abs [59.837 %Abs]             | RK1:31->B03@2 |  |
| *****                |                              |                               |                                       |               |  |
| Statistic            |                              |                               |                                       |               |  |
| MCT Std 0 [MEAN]     | 1.4735                       | 0.0135                        |                                       |               |  |
| MCT Std 0 [SD]       | 0.0290                       | 0.0191                        |                                       |               |  |
| MCT Std 0 [%CV]      | 1.9675                       | 141.4214                      |                                       |               |  |
| MCT Std 1 [MEAN]     | 1.2785                       | 0.1520                        |                                       |               |  |
| MCT Std 1 [SD]       | 0.0516                       | 0.0354                        |                                       |               |  |
| MCT Std 1 [%CV]      | 4.0375                       | 23.2601                       |                                       |               |  |
| MCT Std 1 [%DIFF]    |                              | 1.3333                        |                                       |               |  |
| MCT Std 2 [MEAN]     | 0.9860                       | 0.3885                        |                                       |               |  |
| MCT Std 2 [SD]       | 0.0156                       | 0.0163                        |                                       |               |  |
| MCT Std 2 [%CV]      | 1.5777                       | 4.1862                        |                                       |               |  |
| MCT Std 2 [%DIFF]    |                              | -2.8750                       |                                       |               |  |
| MCT Std 3 [MEAN]     | 0.6045                       | 1.1425                        |                                       |               |  |
| MCT Std 3 [SD]       | 0.0643                       | 0.2553                        |                                       |               |  |
| MCT Std 3 [%CV]      | 10.6446                      | 22.3427                       |                                       |               |  |
| MCT Std 3 [%DIFF]    |                              | 14.2500                       |                                       |               |  |
| MCT Std 4 [MEAN]     | 0.5125                       | 1.6150                        |                                       |               |  |

| Name                  | Absorbance | Concentration | Interpretation | Position |  |
|-----------------------|------------|---------------|----------------|----------|--|
| MCT Std 4 [SD]        | 0.0064     | 0.0481        |                |          |  |
| MCT Std 4 [%CV]       | 1.2417     | 2.9773        |                |          |  |
| MCT Std 4 [%DIFF]     |            | -19.2500      |                |          |  |
| MCT Std 5 [MEAN]      | 0.3530     |               |                |          |  |
| MCT Std 5 [SD]        | 0.0014     |               |                |          |  |
| MCT Std 5 [%CV]       | 0.4006     |               |                |          |  |
| MCT 546 LRB 1 [MEAN]  | 1.4055     | 0.0640        |                |          |  |
| MCT 546 LRB 1 [SD]    | 0.0163     | 0.0113        |                |          |  |
| MCT 546 LRB 1 [%CV]   | 1.1571     | 17.6777       |                |          |  |
| MCT 546 Low-CV [MEAN] | 0.9315     | 0.4490        |                |          |  |
| MCT 546 Low-CV [SD]   | 0.0530     | 0.0608        |                |          |  |
| MCT 546 Low-CV [%CV]  | 5.6933     | 13.5437       |                |          |  |
| MCT 546 LFB 1 [MEAN]  | 0.8820     | 0.5080        |                |          |  |
| MCT 546 LFB 1 [SD]    | 0.0141     | 0.0184        |                |          |  |
| MCT 546 LFB 1 [%CV]   | 1.6034     | 3.6191        |                |          |  |

Assay Curve

y = (A-D)/(1+(x/C)^B) + D  
Weight: NONE  
A = 1.4747  
B = 1.3589  
C = 0.48516  
D = 0.32468  
R2 coef = 0.99674  
50% = 0.744



Test Information

Request: 7/17/2025 11:30:13 AM  
Date: 7/17/2025

| Name/ID        | Assay                | Absorbance                | Concentration      | Interpretation     | Note | Reference | Lot#       |
|----------------|----------------------|---------------------------|--------------------|--------------------|------|-----------|------------|
| MCT Std 0      | MICROCYSTINS ADDA 54 | 1.431 Abs                 | 0.000 µg/L         | R^2=0.99469, 100.1 |      | 0.000     | Kit:25085( |
| MCT Std 0      | MICROCYSTINS ADDA 54 | 1.427 Abs [1.4290] {0.2 C | 0.000 µg/L [0.000] | R^2=0.99469, 99.86 |      | 0.000     | Kit:25085( |
| MCT Std 1      | MICROCYSTINS ADDA 54 | 1.273 Abs                 | 0.155 µg/L         | R^2=0.99469, 89.08 |      | 0.150     | Kit:25085( |
| MCT Std 1      | MICROCYSTINS ADDA 54 | 1.268 Abs [1.2705] {0.3 C | 0.159 µg/L [0.157] | R^2=0.99469, 88.73 |      | 0.150     | Kit:25085( |
| MCT Std 2      | MICROCYSTINS ADDA 54 | 0.992 Abs                 | 0.382 µg/L         | R^2=0.99469, 69.41 |      | 0.400     | Kit:25085( |
| MCT Std 2      | MICROCYSTINS ADDA 54 | 0.991 Abs [0.9915] {0.1 C | 0.383 µg/L [0.383] | R^2=0.99469, 69.34 |      | 0.400     | Kit:25085( |
| MCT Std 3      | MICROCYSTINS ADDA 54 | 0.601 Abs                 | 1.046 µg/L         | R^2=0.99469, 42.05 |      | 1.000     | Kit:25085( |
| MCT Std 3      | MICROCYSTINS ADDA 54 | 0.547 Abs [0.5740] {6.7 C | 1.268 µg/L [1.157] | R^2=0.99469, 38.27 |      | 1.000     | Kit:25085( |
| MCT Std 4      | MICROCYSTINS ADDA 54 | 0.507 Abs                 | 1.502 µg/L         | R^2=0.99469, 35.47 |      | 2.000     | Kit:25085( |
| MCT Std 4      | MICROCYSTINS ADDA 54 | 0.502 Abs [0.5045] {0.7 C | 1.537 µg/L [1.520] | R^2=0.99469, 35.12 |      | 2.000     | Kit:25085( |
| MCT Std 5      | MICROCYSTINS ADDA 54 | 0.349 Abs                 | > 5.000 µg/L       | 24.423 %Abs        |      | 5.000     | Kit:25085( |
| MCT Std 5      | MICROCYSTINS ADDA 54 | 0.350 Abs [0.3495] {0.2 C | > 5.000 µg/L       | 24.493 %Abs        |      | 5.000     | Kit:25085( |
| MCT 546 LRB 1  | MICROCYSTINS ADDA 54 | 1.394 Abs                 | 0.053 µg/L         | 97.551 %Abs        |      |           | Kit:25085( |
| MCT 546 LRB 1  | MICROCYSTINS ADDA 54 | 1.424 Abs [1.4090] {1.5 C | 0.011 µg/L [0.032] | 99.650 %Abs [98.6  |      |           | Kit:25085( |
| MCT 546 Low-CV | MICROCYSTINS ADDA 54 | 0.972 Abs                 | 0.401 µg/L         | 68.020 %Abs        |      |           | Kit:25085( |
| MCT 546 Low-CV | MICROCYSTINS ADDA 54 | 0.937 Abs [0.9545] {2.6 C | 0.436 µg/L [0.419] | 65.570 %Abs [66.7  |      |           | Kit:25085( |
| MCT 546 LFB 1  | MICROCYSTINS ADDA 54 | 0.861 Abs                 | 0.523 µg/L         | 60.252 %Abs        |      |           | Kit:25085( |
| MCT 546 LFB 1  | MICROCYSTINS ADDA 54 | 0.866 Abs [0.8635] {0.4 C | 0.517 µg/L [0.520] | 60.602 %Abs [60.4  |      |           | Kit:25085( |

Note

Signature *David Jordan*

David Jordan 7/17/2025

# Test Report (by Request)

Test Information

Request: 7/17/2025 11:30:30 AM  
Date: 7/17/2025

| Name/ID     | Assay                | Absorbance                | Concentration      | Interpretation    | Note       | Reference     | Lot#       |
|-------------|----------------------|---------------------------|--------------------|-------------------|------------|---------------|------------|
| AC45801-10X | MICROCYSTINS ADDA 54 | 1.006 Abs                 | 3.690 µg/L         | 70.399 %Abs       | MDF=10.000 | 0.300 - 5.000 | Kit:250850 |
| AC45801-10X | MICROCYSTINS ADDA 54 | 0.988 Abs [0.9970] {1.3 C | 3.860 µg/L [3.775] | 69.139 %Abs [69.7 | MDF=10.000 | 0.300 - 5.000 | Kit:250850 |
| LFB 2       | MICROCYSTINS ADDA 54 | 0.775 Abs                 | 0.644 µg/L         | 54.234 %Abs       |            | 0.300 - 5.000 | Kit:250850 |
| LFB 2       | MICROCYSTINS ADDA 54 | 0.723 Abs [0.7490] {4.9 C | 0.735 µg/L [0.690] | 50.595 %Abs [52.4 |            | 0.300 - 5.000 | Kit:250850 |
| LRB 2       | MICROCYSTINS ADDA 54 | 1.341 Abs                 | 0.102 µg/L         | Low, 93.842 %Abs  |            | 0.300 - 5.000 | Kit:250850 |
| LRB 2       | MICROCYSTINS ADDA 54 | 1.401 Abs [1.3710] {3.1 C | 0.045 µg/L [0.074] | Low, 98.041 %Abs  |            | 0.300 - 5.000 | Kit:250850 |

Note

\* A - Abs > 3; IA - Initial Abs; DA - Delta Abs; SD - SD of Abs; LR - Linear Range; [...] - Mean result of duplicate tests  
\* Generated by software version (6.4.1.1171/1085/1.00/0.95) 7/17/2025 11:57:06 AM

Signature

David Jordan

David Jordan 7/17/2025

## 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: Kit:2508506858

## Assay Calibration

Current Calibration Status: "

"

| Name                  | Absorbance                  | Concentration                | Interpretation                        | Position      |  |
|-----------------------|-----------------------------|------------------------------|---------------------------------------|---------------|--|
| 7/17/2025 11:30:13 AM |                             |                              |                                       |               |  |
| MCT Std 0             | 1.431 Abs                   | 0.000 µg/L                   | R <sup>2</sup> =0.99469, 100.140 %Abs | RK1:23->A01@2 |  |
| MCT Std 0             | 1.427 Abs [1.4290] {0.2 CV} | 0.000 µg/L [0.000]           | R <sup>2</sup> =0.99469, 99.860 %Abs  | RK1:23->B01@2 |  |
| MCT Std 1             | 1.273 Abs                   | 0.155 µg/L                   | R <sup>2</sup> =0.99469, 89.083 %Abs  | RK1:24->C01@2 |  |
| MCT Std 1             | 1.268 Abs [1.2705] {0.3 CV} | 0.159 µg/L [0.157] {1.8 CV}  | R <sup>2</sup> =0.99469, 88.733 %Abs  | RK1:24->D01@2 |  |
| MCT Std 2             | 0.992 Abs                   | 0.382 µg/L                   | R <sup>2</sup> =0.99469, 69.419 %Abs  | RK1:25->E01@2 |  |
| MCT Std 2             | 0.991 Abs [0.9915] {0.1 CV} | 0.383 µg/L [0.383] {0.2 CV}  | R <sup>2</sup> =0.99469, 69.349 %Abs  | RK1:25->F01@3 |  |
| MCT Std 3             | 0.601 Abs                   | 1.046 µg/L                   | R <sup>2</sup> =0.99469, 42.057 %Abs  | RK1:26->G01@3 |  |
| MCT Std 3             | 0.547 Abs [0.5740] {6.7 CV} | 1.268 µg/L [1.157] {13.6 CV} | R <sup>2</sup> =0.99469, 38.279 %Abs  | RK1:26->H01@3 |  |
| MCT Std 4             | 0.507 Abs                   | 1.502 µg/L                   | R <sup>2</sup> =0.99469, 35.479 %Abs  | RK1:27->A02@2 |  |
| MCT Std 4             | 0.502 Abs [0.5045] {0.7 CV} | 1.537 µg/L [1.520] {1.6 CV}  | R <sup>2</sup> =0.99469, 35.129 %Abs  | RK1:27->B02@2 |  |
| MCT Std 5             | 0.349 Abs                   | > 5.000 µg/L                 | 24.423 %Abs                           | RK1:28->C02@2 |  |
| MCT Std 5             | 0.350 Abs [0.3495] {0.2 CV} | > 5.000 µg/L                 | 24.493 %Abs                           | RK1:28->D02@2 |  |
| *****                 |                             |                              |                                       |               |  |
| 7/17/2025 11:30:13 AM |                             |                              |                                       |               |  |
| MCT 546 LRB 1         | 1.394 Abs                   | 0.053 µg/L                   | 97.551 %Abs                           | RK1:29->E02@2 |  |
| MCT 546 LRB 1         | 1.424 Abs [1.4090] {1.5 CV} | 0.011 µg/L [0.032] {92.8 CV} | 99.650 %Abs [98.600 %Abs]             | RK1:29->F02@3 |  |
| MCT 546 Low-CV        | 0.972 Abs                   | 0.401 µg/L                   | 68.020 %Abs                           | RK1:30->G02@3 |  |
| MCT 546 Low-CV        | 0.937 Abs [0.9545] {2.6 CV} | 0.436 µg/L [0.419] {5.9 CV}  | 65.570 %Abs [66.795 %Abs]             | RK1:30->H02@3 |  |
| MCT 546 LFB 1         | 0.861 Abs                   | 0.523 µg/L                   | 60.252 %Abs                           | RK1:31->A03@2 |  |
| MCT 546 LFB 1         | 0.866 Abs [0.8635] {0.4 CV} | 0.517 µg/L [0.520] {0.8 CV}  | 60.602 %Abs [60.427 %Abs]             | RK1:31->B03@2 |  |
| *****                 |                             |                              |                                       |               |  |
| Statistic             |                             |                              |                                       |               |  |
| MCT Std 0 [MEAN]      | 1.4290                      | 0.0000                       |                                       |               |  |
| MCT Std 0 [SD]        | 0.0028                      | 0.0000                       |                                       |               |  |
| MCT Std 0 [%CV]       | 0.1979                      | 0.0000                       |                                       |               |  |
| MCT Std 1 [MEAN]      | 1.2705                      | 0.1570                       |                                       |               |  |
| MCT Std 1 [SD]        | 0.0035                      | 0.0028                       |                                       |               |  |
| MCT Std 1 [%CV]       | 0.2783                      | 1.8015                       |                                       |               |  |
| MCT Std 1 [%DIFF]     |                             | 4.6667                       |                                       |               |  |
| MCT Std 2 [MEAN]      | 0.9915                      | 0.3825                       |                                       |               |  |
| MCT Std 2 [SD]        | 0.0007                      | 0.0007                       |                                       |               |  |
| MCT Std 2 [%CV]       | 0.0713                      | 0.1849                       |                                       |               |  |
| MCT Std 2 [%DIFF]     |                             | -4.3750                      |                                       |               |  |
| MCT Std 3 [MEAN]      | 0.5740                      | 1.1570                       |                                       |               |  |
| MCT Std 3 [SD]        | 0.0382                      | 0.1570                       |                                       |               |  |
| MCT Std 3 [%CV]       | 6.6522                      | 13.5676                      |                                       |               |  |
| MCT Std 3 [%DIFF]     |                             | 15.7000                      |                                       |               |  |
| MCT Std 4 [MEAN]      | 0.5045                      | 1.5195                       |                                       |               |  |



| Name                  | Absorbance | Concentration | Interpretation | Position |  |
|-----------------------|------------|---------------|----------------|----------|--|
| MCT Std 4 [SD]        | 0.0035     | 0.0247        |                |          |  |
| MCT Std 4 [%CV]       | 0.7008     | 1.6287        |                |          |  |
| MCT Std 4 [%DIFF]     |            | -24.0250      |                |          |  |
| MCT Std 5 [MEAN]      | 0.3495     |               |                |          |  |
| MCT Std 5 [SD]        | 0.0007     |               |                |          |  |
| MCT Std 5 [%CV]       | 0.2023     |               |                |          |  |
| MCT 546 LRB 1 [MEAN]  | 1.4090     | 0.0320        |                |          |  |
| MCT 546 LRB 1 [SD]    | 0.0212     | 0.0297        |                |          |  |
| MCT 546 LRB 1 [%CV]   | 1.5055     | 92.8078       |                |          |  |
| MCT 546 Low-CV [MEAN] | 0.9545     | 0.4185        |                |          |  |
| MCT 546 Low-CV [SD]   | 0.0247     | 0.0247        |                |          |  |
| MCT 546 Low-CV [%CV]  | 2.5929     | 5.9137        |                |          |  |
| MCT 546 LFB 1 [MEAN]  | 0.8635     | 0.5200        |                |          |  |
| MCT 546 LFB 1 [SD]    | 0.0035     | 0.0042        |                |          |  |
| MCT 546 LFB 1 [%CV]   | 0.4094     | 0.8159        |                |          |  |

Assay Curve

y = (A-D)/(1+(x/C)^B) + D  
Weight: NONE  
A = 1.4269  
B = 1.5525  
C = 0.49396  
D = 0.34328  
R2 coef = 0.99469  
50% = 0.752

