



# Assay Calibration Report

## Assay Information

Assay Name: Cylindrospermopsin 1X Units: ng/mL  
Assay Mode: 4-Parameter Logistic # of decimals: 3  
Normal: 0.050 - 2.000 Assay Description:

Controls:

Normal Control

Standards:

Std1, Concentration = 0.000, Minimum number to use: 2  
Std2, Concentration = 0.050, Minimum number to use: 2  
Std3, Concentration = 0.100, Minimum number to use: 2  
Std4, Concentration = 0.250, Minimum number to use: 2  
Std5, Concentration = 0.500, Minimum number to use: 2  
Std6, Concentration = 1.000, Minimum number to use: 2  
Std7, Concentration = 2.000, Minimum number to use: 2

Curve valid interval: 7 days 0 hours

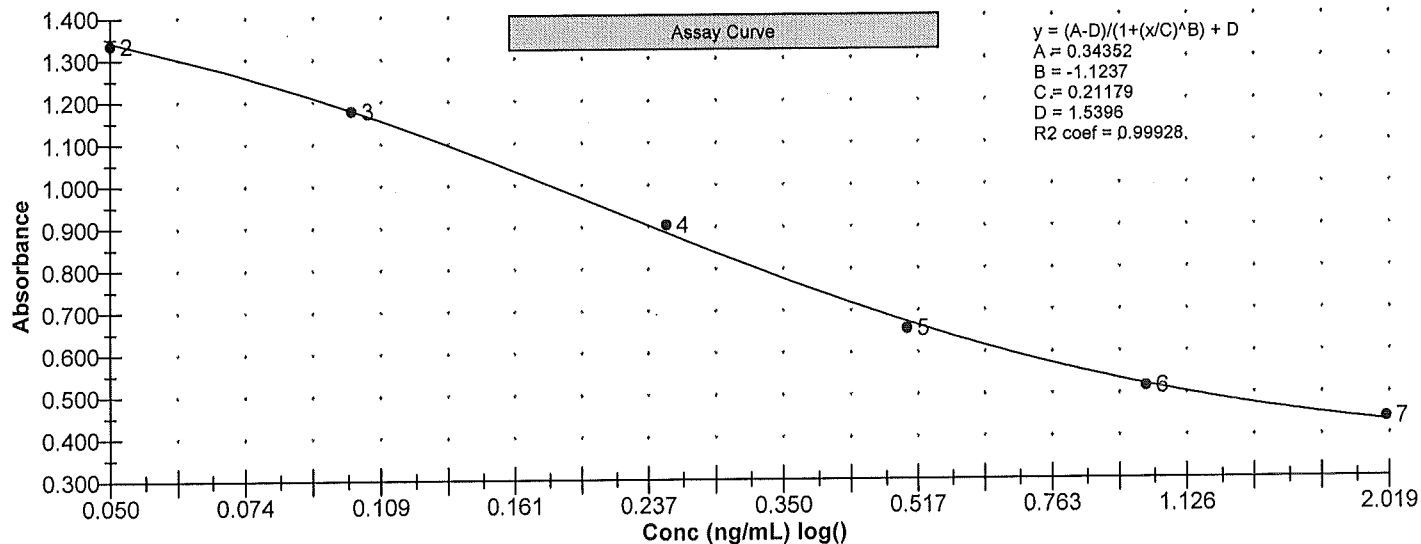
Axis Mode: Y = Abs, X = Log(Conc)

## Assay Calibration and Statistics

| Name                  | Absorbance | Concentration | Position |
|-----------------------|------------|---------------|----------|
| 8/28/2013 10:40:51 AM |            |               |          |
| Std1                  | 1.517 Abs  | 0.000 ng/mL   | A01      |
| Std1                  | 1.568 Abs  | < 0.000 ng/mL | B01      |
| Std2                  | 1.306 Abs  | 0.060 ng/mL   | C01      |
| Std2                  | 1.364 Abs  | 0.044 ng/mL   | D01      |
| Std3                  | 1.174 Abs  | 0.102 ng/mL   | E01      |
| Std3                  | 1.181 Abs  | 0.100 ng/mL   | F01      |
| Std4                  | 0.896 Abs  | 0.243 ng/mL   | G01      |
| Std4                  | 0.913 Abs  | 0.231 ng/mL   | H01      |
| Std5                  | 0.641 Abs  | 0.567 ng/mL   | A02      |
| Std5                  | 0.673 Abs  | 0.501 ng/mL   | B02      |
| Std6                  | 0.520 Abs  | 1.009 ng/mL   | C02      |
| Std6                  | 0.514 Abs  | 1.046 ng/mL   | D02      |
| Std7                  | 0.424 Abs  | > 2.000 ng/mL | E02      |
| Std7                  | 0.456 Abs  | 1.590 ng/mL   | F02      |
| 8/28/2013 10:40:51 AM |            |               |          |
| Normal Control        | 0.573 Abs  | 0.762 ng/mL   | G02      |
| Normal Control        | 0.608 Abs  | 0.650 ng/mL   | H06      |

| Name | Mean Abs | SD Abs | CV Abs | Mean Conc | SD Conc | CV Conc | Diff Conc |
|------|----------|--------|--------|-----------|---------|---------|-----------|
| Std1 | 1.543    | 0.036  | 2.34   |           |         |         |           |
| Std2 | 1.335    | 0.041  | 3.07   | 0.052     | 0.011   | 21.76   | 4.00      |
| Std3 | 1.178    | 0.005  | 0.42   | 0.101     | 0.001   | 1.40    | 1.00      |
| Std4 | 0.905    | 0.012  | 1.33   | 0.237     | 0.008   | 3.58    | -5.20     |
| Std5 | 0.657    | 0.023  | 3.44   | 0.534     | 0.047   | 8.74    | 6.80      |
| Std6 | 0.517    | 0.004  | 0.82   | 1.027     | 0.026   | 2.55    | 2.70      |
| Std7 | 0.440    | 0.023  | 5.14   |           |         |         | -100.00   |

## Assay Curve





# Test Report

## Test Information

| Name/ID               | Assay                 | Absorbance         | Concentration           | Interpretation    | Reference     | Position |
|-----------------------|-----------------------|--------------------|-------------------------|-------------------|---------------|----------|
| 8/28/2013 10:40:51 AM |                       |                    |                         |                   |               |          |
| Std1                  | Cylindrospermopsin 1X | 1.517 Abs          | 0.000 ng/mL             |                   | 0.000         | A01      |
| Std1                  | Cylindrospermopsin 1X | 1.568 Abs          | < 0.000 ng/mL           |                   | 0.000         | B01      |
| Std2                  | Cylindrospermopsin 1X | 1.306 Abs          | 0.060 ng/mL             |                   | 0.050         | C01      |
| Std2                  | Cylindrospermopsin 1X | 1.364 Abs          | 0.044 ng/mL             |                   | 0.050         | D01      |
| Std3                  | Cylindrospermopsin 1X | 1.174 Abs          | 0.102 ng/mL             |                   | 0.100         | E01      |
| Std3                  | Cylindrospermopsin 1X | 1.181 Abs          | 0.100 ng/mL             |                   | 0.100         | F01      |
| Std4                  | Cylindrospermopsin 1X | 0.896 Abs          | 0.243 ng/mL             |                   | 0.250         | G01      |
| Std4                  | Cylindrospermopsin 1X | 0.913 Abs          | 0.231 ng/mL             |                   | 0.250         | H01      |
| Std5                  | Cylindrospermopsin 1X | 0.641 Abs          | 0.567 ng/mL             |                   | 0.500         | A02      |
| Std5                  | Cylindrospermopsin 1X | 0.673 Abs          | 0.501 ng/mL             |                   | 0.500         | B02      |
| Std6                  | Cylindrospermopsin 1X | 0.520 Abs          | 1.009 ng/mL             |                   | 1.000         | C02      |
| Std6                  | Cylindrospermopsin 1X | 0.514 Abs          | 1.046 ng/mL             |                   | 1.000         | D02      |
| Std7                  | Cylindrospermopsin 1X | 0.424 Abs          | > 2.000 ng/mL           |                   | 2.000         | E02      |
| Std7                  | Cylindrospermopsin 1X | 0.456 Abs          | 1.590 ng/mL             |                   | 2.000         | F02      |
| Normal Control        | Cylindrospermopsin 1X | 0.573 Abs          | 0.762 ng/mL             |                   |               | G02      |
| AB14271               | Cylindrospermopsin 1X | 1.820 Abs          | < 0.000 ng/mL           | Out(LR)           | 0.050 - 2.000 | A03      |
| AB14271               | Cylindrospermopsin 1X | 1.556 Abs [1.6880] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | B03      |
| AB14272               | Cylindrospermopsin 1X | 3.560 Abs          | < 0.000 ng/mL           | Out(A,LR)         | 0.050 - 2.000 | C03      |
| AB14272               | Cylindrospermopsin 1X | 1.540 Abs [2.5500] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | D03      |
| AB14273               | Cylindrospermopsin 1X | 1.504 Abs          | 0.000 ng/mL             | LOW               | 0.050 - 2.000 | E03      |
| AB14273               | Cylindrospermopsin 1X | 2.077 Abs [1.7905] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | F03      |
| AB14274               | Cylindrospermopsin 1X | 1.663 Abs          | < 0.000 ng/mL           | Out(LR)           | 0.050 - 2.000 | G03      |
| AB14274               | Cylindrospermopsin 1X | 1.627 Abs [1.6450] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | H03      |
| AB14275               | Cylindrospermopsin 1X | 1.597 Abs          | < 0.000 ng/mL           | Out(LR)           | 0.050 - 2.000 | A04      |
| AB14275               | Cylindrospermopsin 1X | 1.667 Abs [1.6320] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | B04      |
| AB14276               | Cylindrospermopsin 1X | 1.614 Abs          | < 0.000 ng/mL           | Out(LR)           | 0.050 - 2.000 | C04      |
| AB14276               | Cylindrospermopsin 1X | 1.603 Abs [1.6085] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | D04      |
| AB14277               | Cylindrospermopsin 1X | 1.596 Abs          | < 0.000 ng/mL           | Out(LR)           | 0.050 - 2.000 | E04      |
| AB14277               | Cylindrospermopsin 1X | 1.662 Abs [1.6290] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | F04      |
| AB14277LD             | Cylindrospermopsin 1X | 1.714 Abs          | < 0.000 ng/mL           | Out(LR)           | 0.050 - 2.000 | G04      |
| AB14277LD             | Cylindrospermopsin 1X | 1.605 Abs [1.6595] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | H04      |
| 20130826LB            | Cylindrospermopsin 1X | 1.493 Abs          | 0.000 ng/mL             | LOW               | 0.050 - 2.000 | A05      |
| 20130826LB            | Cylindrospermopsin 1X | 1.501 Abs [1.4970] | 0.000 ng/mL [0.000]     | Low [Low]         | 0.050 - 2.000 | B05      |
| EC                    | Cylindrospermopsin 1X | 1.574 Abs          | < 0.000 ng/mL           | Out(LR)           | 0.050 - 2.000 | C05      |
| EC                    | Cylindrospermopsin 1X | 1.504 Abs [1.5390] | 0.000 ng/mL [0.000]     | Low [Low]         | 0.050 - 2.000 | D05      |
| AB14283               | Cylindrospermopsin 1X | 1.525 Abs          | 0.000 ng/mL             | LOW               | 0.050 - 2.000 | E05      |
| AB14283               | Cylindrospermopsin 1X | 1.558 Abs [1.5415] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | F05      |
| AB14284               | Cylindrospermopsin 1X | 1.522 Abs          | 0.000 ng/mL             | LOW               | 0.050 - 2.000 | G05      |
| AB14284               | Cylindrospermopsin 1X | 1.540 Abs [1.5310] | < 0.000 ng/mL [0.000]   | Out(LR) [Low]     | 0.050 - 2.000 | H05      |
| AB14285               | Cylindrospermopsin 1X | 1.498 Abs          | 0.000 ng/mL             | LOW               | 0.050 - 2.000 | A06      |
| AB14285               | Cylindrospermopsin 1X | 1.646 Abs [1.5720] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | B06      |
| AB14286               | Cylindrospermopsin 1X | 1.512 Abs          | 0.000 ng/mL             | LOW               | 0.050 - 2.000 | C06      |
| AB14286               | Cylindrospermopsin 1X | 1.668 Abs [1.5900] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | D06      |
| AB14287               | Cylindrospermopsin 1X | 1.719 Abs          | < 0.000 ng/mL           | Out(LR)           | 0.050 - 2.000 | E06      |
| AB14287               | Cylindrospermopsin 1X | 2.526 Abs [2.1225] | < 0.000 ng/mL [< 0.000] | Out(LR) [Out(LR)] | 0.050 - 2.000 | F06      |
| Normal Control        | Cylindrospermopsin 1X | 0.608 Abs          | 0.650 ng/mL             |                   |               | H06      |

Notes

Signature

Jessica Treusey  
29 Aug 2013



## Cylindrospermopsin 1X ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch  
Cylindrospermopsin ADDA ELISA Sample Information

| Sample #   | Location                         | Date Collected | Date Analyzed | Conc. (ppb) |
|------------|----------------------------------|----------------|---------------|-------------|
| AB14271    | Hardy Lake SRA (Field Duplicate) | 8/26/2013      | 8/28/2013     | <0.050      |
| AB14272    | Field Blank                      | 8/26/2013      | 8/28/2013     | <0.050      |
| AB14273    | Raccoon Lake SRA                 | 8/26/2013      | 8/28/2013     | <0.050      |
| AB14274    | Paynetown SRA                    | 8/26/2013      | 8/28/2013     | <0.050      |
| AB14275    | Hardy Lake SRA                   | 8/26/2013      | 8/28/2013     | <0.050      |
| AB14276    | Quakertown SRA                   | 8/26/2013      | 8/28/2013     | <0.050      |
| AB14277    | Mounds SRA                       | 8/26/2013      | 8/28/2013     | <0.050      |
| AB14277LD  | Mounds SRA (Lab Duplicate)       | 8/26/2013      | 8/28/2013     | <0.050      |
| 20130826LB | Lab Blank                        | 8/26/2013      | 8/28/2013     | <0.050      |
| EC         | Eagle Creek (Citizen Sample)     | 8/23/2013      | 8/28/2013     | <0.050      |
| AB14283    | Field Blank                      | 8/27/2013      | 8/28/2013     | <0.050      |
| AB14284    | Mississinewa Miami SRA           | 8/27/2013      | 8/28/2013     | <0.050      |
| AB14285    | Mississinewa Miami SRA (FD)      | 8/27/2013      | 8/28/2013     | <0.050      |
| AB14286    | Potato Creek SP                  | 8/27/2013      | 8/28/2013     | <0.050      |
| AB14287    | Salamonie Lost Bridge West SRA   | 8/27/2013      | 8/28/2013     | <0.050      |