

Water Quality Testing



EnviroGard

EnviroGard Microcystins Plate

Features

- Rapid lab testing method for the analysis of drinking and environmental water samples
- Quantitative data results with excellent analytical precision
- Test up to 88 samples at one time
- Test results in about 120 minutes
- Method training available
- Microtiter plate immunoassay
- Ideal for source water monitoring

Test Result Type

Quantitative data.

Samples per Kit

96 Well Test Kit

Up to 88 samples

Assay Range

Test Range:

0.1 to 1.6 ppb

Sampling Time

“Sample-to-Data” in about 2 hours.



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PRODUCT PROFILE

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Basic Test Procedure

- Prepare standards.
- Add 100 uL of sample or standard.
- Incubate for 30 minutes.
- Add 100 uL enzyme conjugate
- Incubate for 30 minutes.
- Decant and wash five times.
- Add 100 uL color solution.
- Incubate 30 minutes.
- Stop the reaction and read color at 450 nm.

Specificity

The proprietary antibody used in this assay detects microcystins. The cross-reactivity of the Microcystins EnviroGard® Plate Kit for various microcystin variants is shown below at 50% B/B₀.

Compound	50% B ₀ (ppb)
Mcyst.-LR	0.31
Mcyst.-RR	0.32
Mcyst.-YR	0.38
NODLN	0.47

Test Kit Components

- Antibody coated microtiter plate strips, enzyme conjugate, color development and stop reagents for analysis of 96 wells.
- 1 vial each of 0.1, 0.4 and 1.6 ppb microcystin-LR surrogate (non-toxic) Calibrators.
- Test kit instructions.

Storage & Precautions

- Shelf life is typically one year from date of manufacture, with specific kit expiration date information provided on product packaging.
- Reagents must be stored at 39° to 46°F (4° to 8°C) when not in use.
- Kits must be brought to 64° to 81°F (18° to 27°C) before use.
- Do not expose color solution to direct sunlight.

Other Required Materials

- 10 cc syringes
- Millex[®] HV₁₃ filter units (0.45 micron, 13mm, non-sterile)
- Pipette to deliver 100 µL
- Tap or distilled water for rinsing wells
- Orbital shaker (optional)
- Microtiter plate reader or strip reader
- Multi-channel pipette (optional)
- Repeater pipette (optional)

Ordering Information

Microcystins EnviroGard[®] Plate pn. 75400



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