

# Water Quality Testing

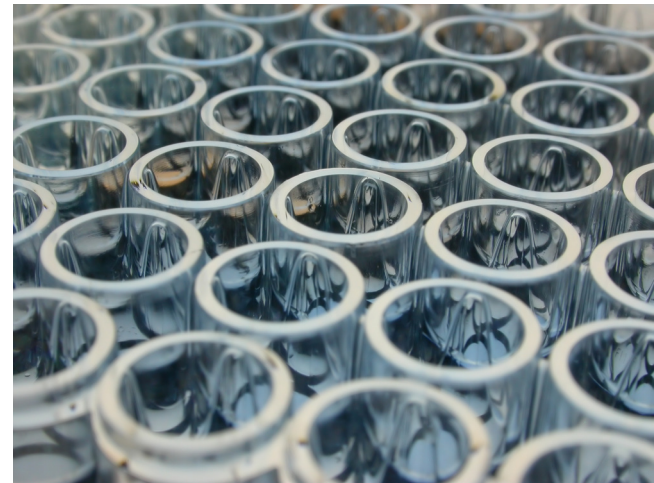


## EnviroGard<sup>®</sup>

### EnviroGard<sup>®</sup> Microcystins 7 Plate

#### Features

- Rapid lab testing method for the detection of microcystins and nodularins in drinking and environmental water samples
- Conforms to the intent of ISO standards for environmental immunoassays, such as ISO 15089
- Quantitative data results with excellent analytical precision
- Test up to 88 samples\*, at one time for increased cost efficiency
- Test results in approximately 120 minutes
- Microtiter plate immunoassay
- Ideal for source water monitoring



\* using 3 standards.

**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

**Analysis Time:** "Sample-to-Data" in approximately 2 hours

# Water Quality Testing

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### Basic Test Procedure

1. Prepare standards.
2. Add 100  $\mu$ L of sample or standard.
3. Incubate for 30 minutes.
4. Add 100  $\mu$ L enzyme conjugate.
5. Incubate for 30 minutes.
6. Decant and wash five times.
7. Add 100  $\mu$ L color solution.
8. Incubate for 30 minutes.
9. Stop the reaction and read color at 450 nm.

### Specificity

The proprietary antibody used in this assay detects microcystins and nodularins. The cross-reactivity of the Microcystins EnviroGard<sup>®</sup> Plate Kit for various microcystin variants is shown below at 50% B/B<sub>0</sub>.

<u>Compound</u>	<u>50% B/B<sub>0</sub> (ppb)</u>
Mcyst.-LR	0.31
Mcyst.-RR	0.32
Mcyst.-YR	0.38
NODLN	0.47

### Ordering Information

Microcystins EnviroGard<sup>®</sup> Plate  
Part Number 7540000

### 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, 0.2, 0.4, 0.56, 0.8, 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<sup>®</sup> HV<sub>13</sub> filter units (0.45 micron, 13mm, non-sterile)
- Pipette to deliver 100 mL
- Distilled water for rinsing wells
- Orbital shaker (optional)
- Microtiter plate reader or strip reader
- Multi-channel pipette (optional)
- Repeater pipette (optional)



Strategic Diagnostics Inc.  
Newark, DE 19702 USA  
www.SDIX.com

Tel: (302) 456-6789 Fax: (302) 456-6782

SDI Europe Ltd.  
Barnes Wallis House  
25 Barnes Wallis Rd  
Fareham

Hampshire PO15 5TT, UK

Tel: 44 (0) 1489 898640 Fax: 44 (0) 1489 898648