

MODERNWATER

EnviroGard®

## Need to Detect Algal Toxins?

Envirogard® is a rapid laboratory enzyme immunoassay method for the analysis of algal toxins in water. It uses ELISA plate technology to detect the analyte of concern.

### Test Type

- Microtiter plate immunoassay

### Result format

- Quantitative data ( $\mu\text{g/l}$ )

### Samples per kit

- 96 well test kit (tests up to 88 samples\*)

### Assay range

- 0.02 ppb to 5 ppb

### Sampling time

- Sample-to-data in approximately 120 minutes

- Rapid lab testing method for the detection of algal toxins in drinking and environmental water samples
- Conforms to ISO standards for environmental immunoassays such as ISO 15089
- Quantitative data results with excellent analytical precision
- Microtiter plate immunoassay
- Ideal for source water monitoring

\* Using three standards



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## ALGAL TOXINS PLATE KITS

Parameters	Detection range
Cylindrospermopsin	0.1 to 2.0 ppb
Okadaic Acid	0.2 to 5.0 ppb
Neo-Saxitoxin	0.03 to 1.0 ppb
Nodularin	0.04 to 1.0 ppb
Brevetoxin	0.1 to 2.5 ppb
Saxitoxin	0.02 to 0.32 ppb
Microcystin	0.1 to 1.6 ppb

### Basic Test Procedure

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

### Test kit components

- Antibody coated microtiter plate strips, enzyme conjugate, colour development and stop reagent for analysis of 96 wells
- Vials of non-toxic calibrators
- Test kit instructions
- Optional check standard (Microcystins)

### 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
- Store at ambient temperature 64° to 81°F (18° to 27°C) is acceptable for day of use for up to eight hours
- Kits must be brought to 64° to 81°F (18° to 27°C) before use
- Do not expose colour solution to direct sunlight

### Required test materials

- Relevant EnviroGard® plate kit

### Required test equipment

- 10 cc syringes
- 0.45 micron non-sterile filter units
- Pipette to deliver up to 100 µL
- Distilled or DI water for rinsing wells
- Microtiter plate reader or strip reader
- Timer
- Parafilm or tape
- Marker pen

### Other recommended materials

- Orbital shaker
- Multi-channel pipette
- Repeater pipette
- Calculator
- Microtiter plate washer
- Solid extraction devices



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