

Prod. no. L34000401
Product Description
Microcystin ELISA Kit

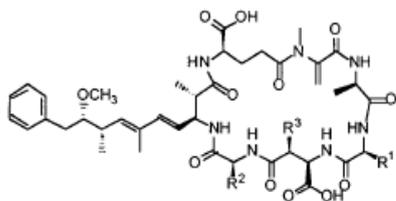
Patented technology*. The antibody binds with microcystins and nodularins, allowing the congener-independent determination of these toxins and many of its congeners, and does not cross-react with other non-related toxins or compounds.

The assay range is between 0.15 ppb and 5 ppb. A sensitive assay to determine microcystins/nodularins concentration in environmental samples.

Total time for measurement is less than 2.5 hours.

The kit, a 96-well microplate format with ready to use reagents, enables simultaneous measurement of multiple samples at a reasonable cost.

Chemical structure



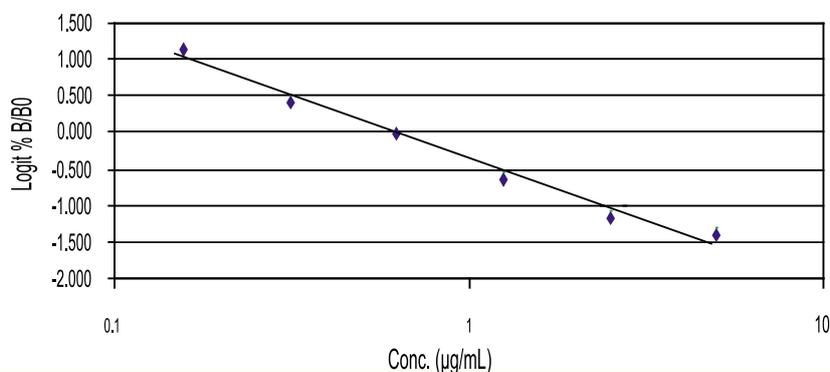
Microcystins/Nodularins are toxins produced by cyanobacteria (blue-green algae). Acute poison in humans and animals can be caused by these toxins, and in several cases lead to death. These toxins inhibit liver function and might act as tumor promoters. To protect consumers from adverse health effects caused by these types of toxins, the WHO has proposed a provisional upper limit for microcystin-LR of 1 ppb in drinking water. Many different structural variants or congeners of microcystin and nodularins are found, the most common

variant is microcystin-LR.

GHPLC or the PPA, are generally employed methods for quantitative microcystin analysis, however, they require expensive instrumentation as well as complex procedures. The ELISA test kit allows for the detection of congener-independent microcystin/nodularins toxins in environment samples at the ppt levels.

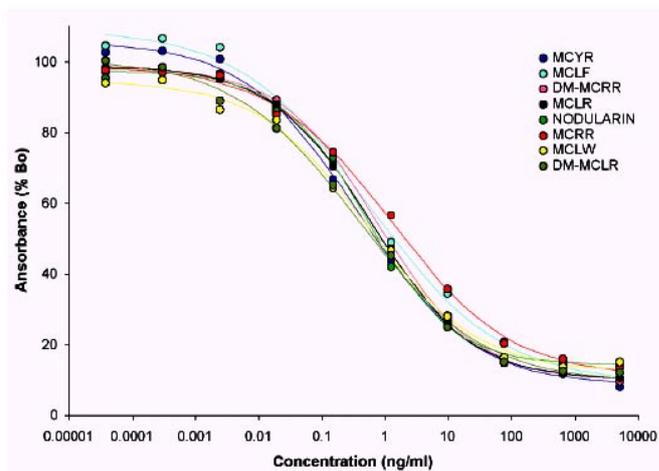
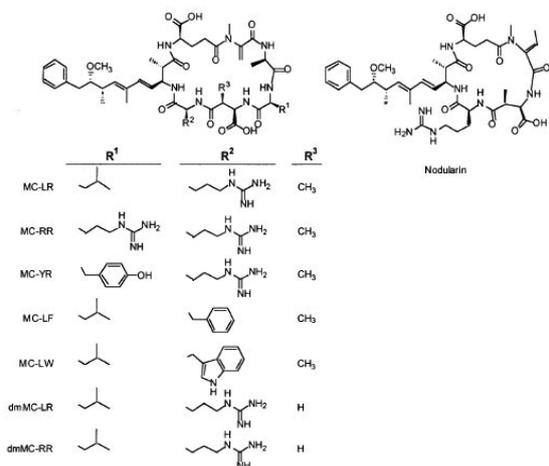
Microcystins Standard Curve

The standard curve has been extended to include six standard points, to increase reliability. Samples containing microcystins/nodularins within the dynamic range (0.15 - 5 ppb) can be directly tested in the assay after filtration.

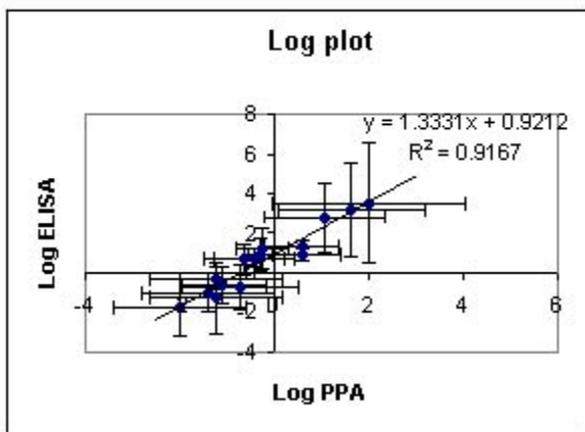


Cross-reactivity Pattern

Cross-reactivity against microcystins and nodularin congeners.



Sample Correlation



* Patent WO01/18059 A2

This ELISA exhibits high correlation with the PPA method ($r^2=0.917$)

Kit Format

Microplate (96T) and reagents PN 520011

Distributed in Europe by
Biosense Laboratories AS

Kit manufactured by
Abraxis LLC

www.biosense.com

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