

ABRAXIS[®] Algal Toxin ACE – Affinity Capture & Extraction Products

Due to increasing incidents of harmful algal blooms and their potential impacts to public health, there is widespread interest in testing biological sample matrices for algal toxins. However, detection is often difficult because the concentration of algal toxins in biological sample matrices is typically low and these complex biological matrices frequently contain components that interfere in downstream assays.

Our algal toxin ACE (Affinity Capture and Extraction) products were developed as simple-to-use, ready-made kits for the selective capture, extraction and/or concentration of algal toxins from biological samples prior to downstream analysis.

How they work: Magnetic beads coupled to toxin-specific antibodies are used to selectively capture, extract and/or concentrate toxins of interest from biological samples prior to downstream analysis.

The products are offered for non-diagnostic, “research use only” use. Labs wishing to use algal toxin ACE products for other applications should perform appropriate lab-specific validations.

Applicable to:

- Federal and state public health labs
- Environmental health lab
- Occupational health labs
- Veterinary health labs
- Academic research labs



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Algal toxin ACE kits come with reagents and materials for 20 tests (up to 13 samples and 7 standards/controls). Processing time for experienced users is ~30-35 minutes per batch plus ~10 minutes for preparation of standards.

ABRAXIS® Algal Toxin ACE Kits (20 test)

Toxin	Part#	Sample matrices	Compatible downstream assays
Microcystins*	520100	<ul style="list-style-type: none"> Blood serum Urine 	<ul style="list-style-type: none"> ABRAXIS® Microcystins ADDA ELISA (520011) Microcystins PP2A kit (520032) LC-MS



*NOTE: Uses an exclusive MCY-ADDA specific antibody to provide selective capture of all MC congeners

Along with our algal toxin ACE products, we offer pre-measured, single-use, matrix-matched standards for blood serum and urine to be prepared and run along with samples according to instructions. A standard set contains one vial of each standard and control concentration indicated in the table below. Standards and controls are supplied lyophilized, 1 mL/vial after reconstitution.



ABRAXIS® Seri-Standard Sets

Toxin	Part#	Standard/control concentrations
Microcystins	520102	0.000, 0.025, 0.050, 0.100, 0.200, 0.400 ppb Control at 0.075 ± 0.0185 ppb

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