



## Supporting Products for Algal Toxin LC-MS Analysis

- Algal toxin standards & QC materials
- Algal toxin test strip kits
- AbraScan® test strip reader
- Algal toxin proficiency testing programs

# Supporting Products for Algal Toxin LC-MS Analysis

## Algal toxin standards & QC materials

We offer the widest selection of algal toxin standards and quality control materials including:

- Certified reference materials (CRMs)
- High quality analytical standards
- Labeled standards
- Neat materials & spiking solutions

### Certified reference materials

- ISO 17034 CIFGA certified reference materials
- Highest assurance in accuracy of analytical data
- Tested via multiple methods to ensure homogeneity and concentration
- Certificates of analysis available

#### Use:

- Highest quality method development & validation
- Instrument calibration



### Testing for Algal Toxins in Biological Fluids?

Ask about our algal toxin ACE product line for simple extraction and concentration from complex matrices.

### High quality analytical standards



- Help to ensures accuracy of analytical data
- Tested/quantified using extinction coefficients (OD values)
- Certificates of analysis available

#### Use:

- Analytical method development and validation
- Instrument calibration

Part #	Description	Qty	Conc.
300582	Microcystin RR Standard, Certified	0.5 mL	~10 µg/mL
300586	Anatoxin-a (+) Standard, Certified	0.5 mL	~5 µg/mL
300588	Cylindrospermopsin Standard, Certified	0.5 mL	~10 µg/mL
300590	Saxitoxins Standard, Certified	0.5 mL	~20 µg/mL
300591	Nodularins Standard, Certified	0.5 mL	~10 µg/mL
300589	Microcystin LY Standard, Certified	0.5 mL	~5µg/mL

Part #	Description	Qty	Conc.
300620	ABRAXIS® Anatoxin-a (+) Standard	0.5 mL	10 µg/mL
300655	ABRAXIS® Dihydroanatoxin-a Standard	0.5 mL	10 µg/mL
301295	ABRAXIS® Homo-anatoxin-a Standard	0.5 mL	4 µg/mL
300626	ABRAXIS® Cylindrospermopsin Standard	1.0 mL	10 µg/mL
300628	ABRAXIS® Microcystin LA Standard	1.0 mL	10 µg/mL
300646	ABRAXIS® Microcystin LF Standard	1.0 mL	10 µg/mL
300632	ABRAXIS® Microcystin LR Standard	1.0 mL	10 µg/mL
300650	ABRAXIS® Microcystin LW Standard	1.0 mL	10 µg/mL
300636	ABRAXIS® Microcystin RR Standard	1.0 mL	10 µg/mL
300652	ABRAXIS® Microcystin WR Standard	1.0 mL	10 µg/mL
300638	ABRAXIS® Microcystin YR Standard	1.0 mL	10 µg/mL
300654	ABRAXIS® Microcystin HiIR Standard	1.0 mL	10 µg/mL
300656	ABRAXIS® Desmethyl Microcystin LR Std	1.0 mL	10 µg/mL
300640	ABRAXIS® Nodularins Standard	1.0 mL	10 µg/mL
300642	ABRAXIS® Saxitoxin Standard, in ethanol	1.0 mL	10 µg/mL

## Labeled standards

- High purity, isotopically labeled versions of common toxins
- Tested/quantified using extinction coefficients (OD values)
- Certificates of analysis available

### Use:

- Internal standard for LC-MS/MS analysis
- Accounts for sample loss during sample preparation
- Evaluates ion suppression from sample matrix effects
- Assessment of injection volume accuracy

Part #	Description	Qty	Conc.
In solution			
300505	13 C4-(+)-Anatoxin-a Standard	0.5 mL	10 µg/mL
300504	[15N5] Cyindrospermopsin, in MeOH	0.5 mL	10 µg/mL
300502	Microcystin LR Deuterated (D7) Standard	0.5 mL	10 µg/mL
300500	Microcystin LR Deuterated Standard	0.5 mL	10 µg/mL
Neat (dry)			
300622	BMAA D3 Standard	1.0 mg	Neat
300508	[15N5] 7-deoxy-Cylindrospermopsin, dry	5.0 µg	Neat
300506	[15N5] 7-epi-Cylindrospermopsin, dry	5.0 µg	Neat
300507	Microcystin LR Ethylated (D5, 99%)	25.0 µg	Neat
300956	[15N]7 Saxitoxin Standard, dry	5.0 µg	Neat

## Neat materials & spiking solutions

- High purity, high concentration or neat (dry) materials
- Tested/quantified using extinction coefficients (OD values)
- Certificates of analysis available

### Use:

- Preparation of matrix spikes
- Interference studies

Part #	Description	Qty	Conc.
300624	ABRAXIS® Cylindrospermopsin Standard	0.5 mg	Neat
300653	ABRAXIS® 7-deoxy-Cylindrospermopsin,	5.0 µg	Neat
300651	ABRAXIS® 7-epi-Cylindrospermopsin, dry	5.0 µg	Neat
300630	ABRAXIS® Microcystin LR Standard	0.5 mg	Neat
300702	ABRAXIS® Microcystins/Nodularins (ADDA) Spiking Solution, MCT-LR	10 mL	50 µg/L

## Algal toxin test strip kits

ABRAXIS® lateral flow test strips are simple to use and provide results in under an hour. Couple them with our hand-held AbraScan® test strip reader for semi-quantitative test results.

- Qualitative/semi-quantitative
- Result turnaround in <1 h
- No prior lab skills required
- No expensive equipment required
- ~ \$25- \$45/sample



### Use:

- Lab sample triage to avoid MS source contamination, high associated repair costs and instrument downtime
- Field-based testing to guide sampling for later lab evaluation
- Testing applications in remote areas and citizen/volunteer monitoring

Toxin	Test range	5-test kit	20-test kit
Anatoxin-a	0.4 – 2.5 ppb*	520042	520043
Cylindrospermopsin	0.5 – 10.0 ppb*	520029	520030
Microcystins Finished Drinking Water	0.5 – 5.0 ppb*	520016	520017
Microcystins Finished Drinking Water 0.3	0.3 – 3.0 ppb*	N/A	520046
Microcystins Source Drinking Water	0.5 – 5.0 ppb*	520019	520020
Microcystins Recreational Water	1.0 – 10.0 ppb*	520023	520022

**NOTE:** Kits include materials and reagents for sample analysis. Additional materials may be required for sample prep and collection. Consult user's guide.

\*The upper range of detection can be extended by further sample dilution prior to analysis. Application for additional sample matrices are also available. Contact [support.abraxis@us.goldstandarddiagnostics.com](mailto:support.abraxis@us.goldstandarddiagnostics.com) for assistance.

## AbraScan® test strip reader

The hand-held AbraScan Test Strip Reader is compatible with ABRAXIS® lateral flow test strips. The easy-to-use reader eliminates the need for subjective visual comparison of control and test line intensities and maintains a digital photographic record of all test strip results.

- Pre-programmed for ABRAXIS® Algal toxin test strip kits
- Objectively analyzes a test strip in 5-10 seconds
- Rugged, requires minimal maintenance
- Intuitive user interface and color touchscreen display
- Proprietary line detection algorithms adjust for variability in test strip positioning



### Use:

- Remove subjectivity from test strip result interpretation
- Increase consistency across multiple users versus visual result interpretation
- Result traceability and review

Part #	Description
475025B	Abrascan® Dipstick Reader III, handheld reader with supplemental software

## Algal toxin proficiency testing programs

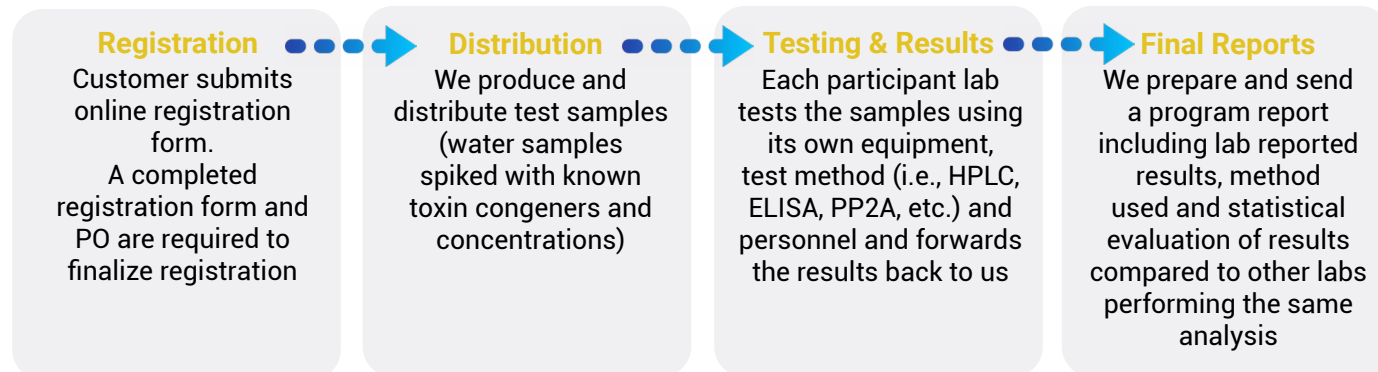
- Annual drinking water round - late Q1/early Q2
- Annual recreational/raw water round - late Q2/early Q3
- Online registration
- Participants receive a unique code to maintain confidentiality unless release is authorized
- Materials for sample prep and analysis are sold separately



### Use:

- Obtain an independent assessment of laboratory performance
- Assess lab performance against other labs
- Demonstration of lab capabilities and competency

## Proficiency Testing Process Overview



**Contact Us**

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