

Cyanotoxins in Brackish or Seawater Kit Tolerance Reference Guide

Analyte	Test Kit	Seawater Tolerance*
Anabaenopeptins	PN520070	Up to 100% – No additional sample preparation necessary before sample analysis.
Anatoxin-a	PN520060	<10% – Immediately upon collection, preserve the sample by diluting 9 parts sample to 1 part 10x concentrated sample diluent. ≥10 to 100% – No additional sample preparation or preservation necessary before sample analysis. <i>Note: Avoid exposure to high pH conditions, as this will degrade the toxin, producing inaccurate results. Sample pH should be checked at the time of collection, to ensure pH is between 5-7. If necessary, adjust pH using 1N NaOH or HCl.</i>
BMAA	PN520040	Up to 10% – Dilute samples to ≤ 10% seawater using sample diluent prior to analysis.
Brevetoxin	PN520026	Up to 100% – Seawater samples must be treated immediately at the time of sampling with the Seawater Pretreatment Solution included in the test kit.
Cylindrospermopsin	PN522011	Up to 20% – Dilute samples to ≤ 20% seawater using sample diluent prior to analysis. <i>Note: If a lower detection limit is required, interfering compounds can be removed from brackish or seawater samples (see the Cylindrospermopsin in Brackish Water or Seawater Sample Preparation Technical Bulletin).</i>
Domoic Acid	PNON0021	Up to 100% – No additional sample preparation necessary before sample analysis.
Microcystins	<ul style="list-style-type: none"> • Microcystins-ADDA PN520011 • Microcystins-DM PN522015 • Microcystins-SAES PN520011SAES • Microcystins Strip Test for Finished Drinking Water PN520016 (5T) PN520017 (20T) 	<ul style="list-style-type: none"> • Microcystins ADDA – Up to 2.5% - Dilute samples to ≤ 2.5% seawater using sample diluent prior to analysis. <i>Note: If a lower detection limit is required, interfering compounds can be removed from brackish or seawater samples (see the Microcystins in Brackish Water or Seawater Sample Preparation for the Microcystins-ADDA ELISA Technical Bulletin).</i> • Microcystins-DM – Up to 20% - Dilute samples to ≤ 20% seawater using sample diluent prior to analysis. <i>Note: If a lower detection limit is required, interfering compounds can be removed from brackish or seawater samples (see the Microcystins in Brackish Water or Seawater Sample Preparation for the Microcystins-DM ELISA Technical Bulletin).</i> • Microcystins-SAES – 100% - No additional sample preparation necessary before sample analysis. • Microcystins Strip Test for Finished Drinking Water – Samples with salinities ≤ 2.5 parts per thousand (‰) do not require additional sample preparation prior to analysis; samples with salinities > 2.5 ‰ must be diluted as described in the Brackish or Sea Water Sample Preparation technical bulletin prior to analysis using the Microcystins Strip Test for Finished Drinking Water.
Okadaic Acid	PN520021	Up to 100% – No additional sample preparation necessary before sample analysis.
Saxitoxin	PN52255B	Up to 10% – Dilute samples to ≤ 10% seawater using sample diluent prior to analysis using the freshwater Saxitoxin standards included in the test kit. Samples containing >10% seawater should be prepared using the procedure shown on the Saxitoxin in Water Samples Quick Reference Guide and analyzed using the Seawater Saxitoxin standards (PN52255SW, sold separately).
<p>*Note: The salinity of 100% seawater as described above is ~38 parts per thousand (‰). Samples of 100% seawater that are diluted to 20% seawater will have a salinity of 8 ‰. Samples of 100% seawater that are diluted to 10% seawater will have a salinity of 4 ‰.</p>		