

Analyte	Collection/Storage Container Use with PTFE lined screw caps	Sample Preservation**	Storage & Handling
Anabaenopeptins	Glass – clear or amberPolyethylene terephthalate glycol (PETG)	Treated water: <u>Immediately upon collection</u> , quench chlorine with ascorbic acid orsodium thiosulfate* (up to 1 mg/mL; recommended concentration 0.1 mg/mL)	Analyze immediately, refrigerate (4 °C) for up to5 days, or freeze (-20 °C) Ship overnight on ice
Anatoxin-a	 Glass – amber only, do <u>NOT</u> use clear glass Anatoxin-a is light sensitive – avoid exposureto light, as this will degrade the toxin and produce inaccurate results 	 Treated water: <u>Immediately upon collection</u>, quench chlorine with ascorbic acid* (up to 1 mg/mL; recommended concentration 0.1 mg/mL). Do <u>NOT</u> use sodium thiosulfate, as it will degrade the toxin and produce inaccurate results Freshwater (treated & raw): <u>Immediately upon collection</u>, preserve the sample by diluting 9 parts sample to 1 part 10x concentrated sample diluent. Adjust pHto between 5-7 using 1N NaOH or HCl within 24 hours of collection.‡ Marine water: Adjust pH to between 5-7 using 1N NaOH or HCl within 24 hours of collection.‡ ‡Avoid exposure to high pH conditions for more than 24 hours, as this willdegrade the toxin and produce inaccurate results. 	Analyze immediately, refrigerate (4 °C) for up to28 days, or freeze (-20 °C)if greater than 28 days Ship overnight on ice
BMAA	 Glass – clear only, do <u>NOT</u> use amber glass <i>Toxin will</i> adsorb to amber glass, producinginaccurate results Polyethylene terephthalate glycol (PETG) High density polyethylene (HDPE) Polycarbonate (PC) Polypropylene (PP) Polystyrene (PS) 	All samples: Analyze samples <i>immediately upon collection</i> or freeze (-20 °C) toavoid degradation of the toxin, which will produce inaccurate results	Analyze or freeze (-20 °C)immediately upon collection Ship overnight on ice
Cylindrospermopsin	 Glass – clear or amber Polyethylene terephthalate glycol (PETG) High density polyethylene (HDPE) Polycarbonate (PC) Polypropylene (PP) Polystyrene (PS) 	Treated water: <u>Immediately upon collection</u> , quench chlorine with ascorbic acid orsodium thiosulfate* (up to 1 mg/mL; recommended concentration 0.1 mg/mL)	Analyze immediately, refrigerate (4 °C) for up to5 days, or freeze (-20 °C) Ship overnight on ice
Microcystins/ Nodularins	 Glass – clear or amber Polyethylene terephthalate glycol (PETG) Avoid plastic containers other than PETG, astoxin will adsorb to container surfaces, producing inaccurate results 	Treated water: <u>Immediately upon collection</u> , quench chlorine with sodiumthiosulfate* (up to 1 mg/mL; recommended concentration 0.1 mg/mL). Do <u>NOT</u> use ascorbic acid, as this may degrade the toxin and produce inaccurate results	Analyze immediately, refrigerate (4 °C) for up to5 days, or freeze (-20 °C) Ship overnight on ice
Saxitoxin	 Glass – clear or amber Polyethylene terephthalate glycol (PETG) High density polyethylene (HDPE) Polycarbonate (PC) Polypropylene (PP) Polystyrene (PS) 	Treated water: Immediately upon collection, quench chlorine with ascorbic acid orsodium thiosulfate* (up to 1 mg/mL; recommended concentration 0.1 mg/mL) Freshwater (treated & raw): Immediately upon collection, preserve the sampleby diluting 9 parts sample to 1 part 10x concentrated sample diluent Marine water: None required	Analyze immediately, refrigerate (4 °C) for up to5 days, or freeze (-20 °C) Ship overnight on ice

Cyanotoxins in Water Sample Collection Quick Reference Guide for ELISA Plate Assays

*The use of solid quenching reagents is recommended. Note: EPA Method 546 prohibits the use of liquid reagent solutions for sample quenching. **Additional sample preparation such as cell lysis and filtration may be required prior to analysis depending on analytical objectives (e.g. "total" versus "free" toxin). Refer to specific kit user's guide for additional information. DISCLAIMER: Current recommendations by applicable regulatory agencies should always take precedence and should be followed in the event of a conflict

Date this Technical Bulletin is effective:09NOV2021