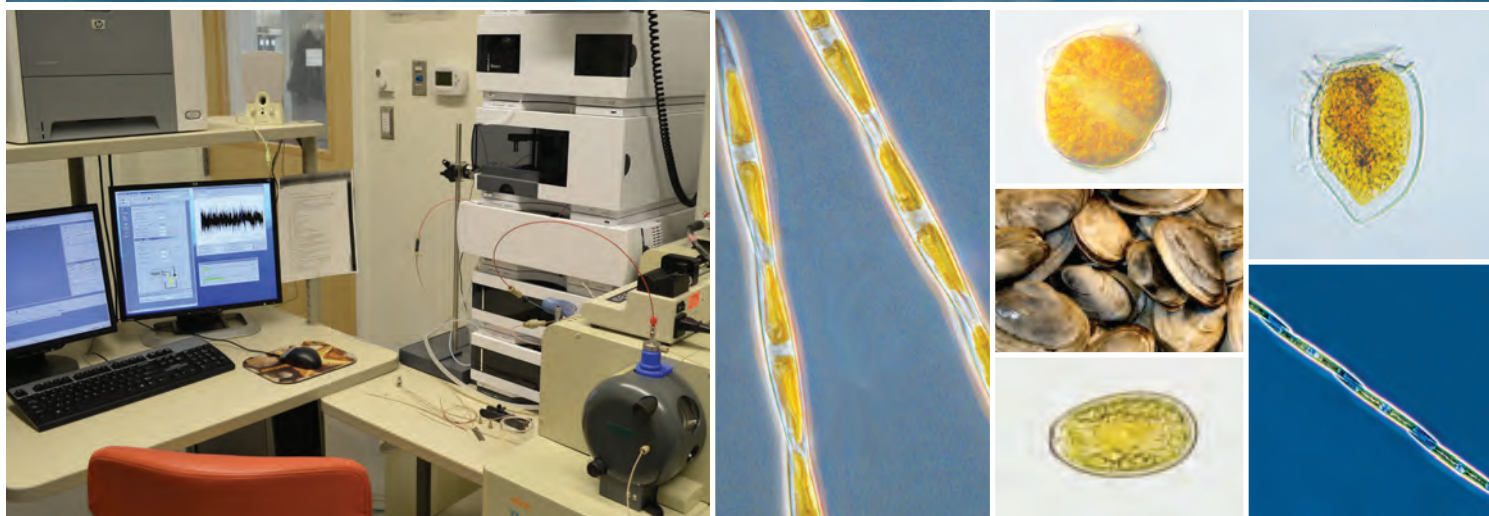


BIGELOW ANALYTICAL SERVICES

Biotoxin Analysis

Reducing Biotoxin Risk



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Building photo by Greg Bernard. Micrographs courtesy of the
Provasoli-Guillard National Center for Marine Algae and Microbiota.



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Modern Quantitative Approaches to Shellfish Toxin Analysis

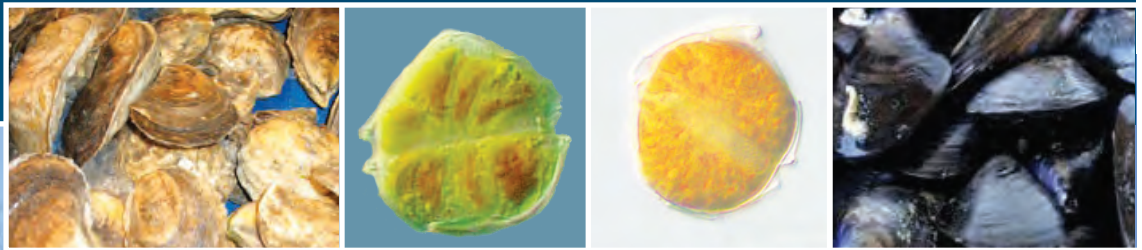
SERVICES

Quantitative analysis of a variety of matrices including oysters, clams, mussels, and quahogs:

- PSP (paralytic shellfish poisons)
- ASP (amnesic shellfish poisons)
- DSP (diarrhetic shellfish poisons)

The Bigelow Analytical Services (BAS) Facility is located on Bigelow Laboratory's Ocean Science and Education Campus in East Boothbay, Maine. BAS uses modern analytical approaches to provide quantitative analysis of biotoxin concentrations in shellfish biomass.

Analytical approaches include HPLC-PCOX (high-pressure liquid chromatography – post-column oxidation) and LC-QQQ-MS (liquid chromatography triple-quadrupole mass-spectrometry).



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