



Marine Biotoxin Monitoring

Marine biotoxins can accumulate in filter-feeding shellfish such as clams, mussels and oysters when they ingest toxin-producing phytoplankton, introducing those toxins to the human food chain. In addition, some toxins are released into drinking water and recreational water through natural means or cell disruption resulting from water treatment processes. Exposure or consumption of marine biotoxins via contaminated shellfish or water may result in illness or death of humans, animals and aquatic organisms.

To meet the needs of government and industry in protecting public health from these threats, Gold Standard Diagnostics offers testing solutions for many marine biotoxins and associated shellfish poisoning syndromes, including paralytic (PSP), diarrhetic (DSP), neurotoxic (NSP), and amnesic shellfish poisoning (ASP).

Our testing solutions support responsible monitoring programs and allow for on-site testing. On-site testing provides more timely answers allowing for a more rapid response to the threat of marine biotoxins in shellfish and water.

Products & Services

- Saxitoxin (PSP) test kits
- Brevetoxin (NSP) test kits
- Domoic acid (ASP) test kits
- Okadaic acid (DSP) test kits
- Readers and automated systems
- Proficiency testing programs
- Analytical standards



Testing Options

Due to the variety of sample matrices and specific applications associated with marine biotoxin testing, various testing options and formats are important for helping customers achieve their specific test objectives. Laboratory based tests, such as ELISA and phosphatase inhibition assays, produce quantitative results, generally at lower levels of detection. They may also be more efficient and cost-effective when analyzing large sample batches. Conversely, semi-quantitative/qualitative tests such as lateral flow test strips are more amenable to remote or field-based testing and generally provide a faster time to result at a lower cost for smaller sample batches. They also require minimal to no lab skills and equipment.

- Beach monitoring
- Shellfish harvesting
- Shellfish processing
- Food safety
- Export/import
- Drinking water
- Research

Answers in Hours, Not Days



ELISA Plate Kits

- On-site lab analysis
- Quantitative
- Answers in 3 to 4 hours
- Requires only basic lab skills
- Automated options



Test Strip Kits

- Simple in-field testing
- Semi-quantitative or qualitative
- Answers in <1 hour
- No lab skills required
- No complex equipment