

### Product information

**Product name:** anti-saxitoxin pab ELISA-Stick with test reagents

**Product number:** ES-9

**Package size:** 10 tests

**General Description:** Saxitoxin (STX) is a neurotoxin that acts as a selective sodium channel blocker and is naturally produced by certain species of marine dinoflagellates (*Alexandrium sp.*, *Gymnodinium sp.*, *Pyrodinium sp.*) and cyanobacteria (*Anabaena sp.*, some *Aphanizomenon spp.*, *Cylindrospermopsis sp.*, *Lyngbya sp.*, *Planktothrix sp.*). Ingestion of STX (usually through shellfish contaminated by toxic algal blooms) is responsible for the human illness known as paralytic shellfish poisoning (PSP). In fact, the term saxitoxin originates from the species name of the butter clam (*Saxidomus giganteus*) in which it was first recognized. Saxitoxin, one of the most potent natural toxins known, acts on the voltage-gated sodium channels of nerve cells, preventing normal cellular function and leading to paralysis. The term saxitoxin can also refer to the entire suite of related neurotoxins produced by these microorganisms, which include pure STX, neosaxitoxin (neoSTX), the gonyautoxins (GTX) and decarbamoylsaxitoxin (dcSTX). Detection of saxitoxin in shellfish such as mussels, clams and scallops frequently leads to closures of commercial and recreational shellfish harvesting.

**Principle:** The *Saxitoxin detection reagent set* is sensitive and easy to handle test for the detection of *Saxitoxin*. The test can be carried out without sample preparation or pre-incubation. Since the test does not require any labour equipment, it is especially suitable for analysis on the spot.

**Sensitivity:** Detection limit 1 ng

**Sample size:** max. 1 ml

**Assay sample type:** any sample

**Detection time:** 1.5 h

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