product information

Background | 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). 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.

Immunogen | BSA-conjugated saxitoxin
Host | Rabbit
Clonality | Polyclonal
Purity | Serum
Format | Liquid
Quantity | 0.1 ml
Storage | 4°C up to one month or in aliquots at -20°C for long time storage. Avoid repeated freezing and thawing.

Tested applications | ELISA
Related products | AS11 1696 | anti-saxitoxin, antibodies in serum format, larger pack size - 1 ml

Additional information | Contains 0.01% sodium azide as preservative.

Application information

Recommended dilution | To be determined by end user.
Confirmed reactivity | toxin from marine dinoflagellates, cyanobacteria and mussels
Predicted reactivity | n.a.
Not reactive in | no confirmed exceptions from predicted reactivity known in the moment

Additional information | 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). Manufactured by Antiprot.

Selected references | to be added when available