

# New CRM Solutions for Paralytic Shellfish Toxins

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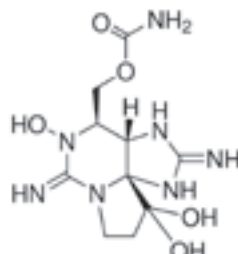
Paralytic Shellfish Toxins (PSTs) are a group of highly toxic, naturally occurring alkaloids produced by certain species of marine algae. During harmful algae blooms, these toxins can accumulate in bivalve mollusks and cause severe poisoning after consumption. The occurrence of PSTs in seafood, therefore, needs to be monitored. We are introducing a series of native and isotope labeled Certified Reference Material (CRM) solutions for paralytic shellfish toxins, suitable for calibration of LC-MS / LC-IDMS (isotope dilution MS) food testing methods.

The CRM solutions are manufactured in-house under our ISO/IEC 17025 and ISO 17034 accreditation, and feature:

- Certification by qNMR or IDMS with traceability to SI unit via NIST or NRC primary standards
- Solutions produced gravimetrically
- Homogeneity, accelerated and long-term stability tested by LC-MS
- A comprehensive certificate including the overall uncertainty

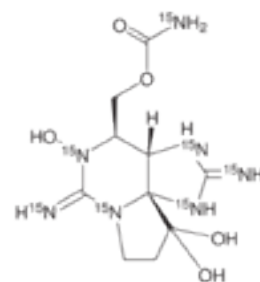
For more information, and an up-to-date list of marine toxin CRMs, please visit:

[SigmaAldrich.com/marinetoxins](https://sigmaaldrich.com/marinetoxins)



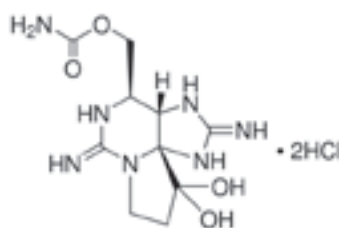
**41619**

Neosaxitoxin solution  
20 µg/g in 3 mmol/L HCl



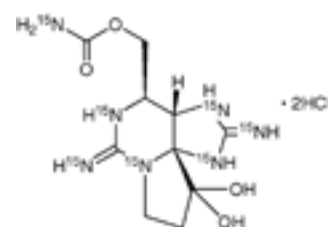
**41206**

Neosaxitoxin <sup>15</sup>N<sub>7</sub> solution  
10 µg/g in 3 mmol/L HCl



**93665**

Saxitoxin dihydrochloride solution  
20 µg/g in 3 mmol/L HCl



**30929**

Saxitoxin <sup>15</sup>N<sub>7</sub> dihydrochloride solution  
10 µg/g in 3 mmol/L HCl

As a first set of products, we are introducing the PSTs Neosaxitoxin and Saxitoxin dihydrochloride as CRM solutions both in native and <sup>15</sup>N labeled form.

Description	Qty.	Cat. No.
Neosaxitoxin, 20 µg/g in hydrochloric acid, certified reference material, TraceCERT®	0.5 mL	<b>41619</b>
Neosaxitoxin- <sup>15</sup> N <sub>7</sub> , 10 µg/g in hydrochloric acid, certified reference material, TraceCERT®	0.5 mL	<b>41206</b>
Saxitoxin dihydrochloride, 20 µg/g in hydrochloric acid, certified reference material, TraceCERT®	0.5 mL	<b>93665</b>
Saxitoxin- <sup>15</sup> N <sub>7</sub> dihydrochloride, 10 µg/g in hydrochloric acid, certified reference material, TraceCERT®	0.5 mL	<b>30929</b>