

Quality Testing for Quality Produce

Marine Biotoxins • Norovirus

Shellfish can be susceptible to marine toxins when toxic phytoplankton blooms occur. The toxins are heat stable and therefore cannot be removed by cooking. If the toxins are present in high enough concentrations, they can cause severe poisoning. Norovirus can be found in human sewage. If the sewage contaminates the areas in which bivalve shellfish are grown, norovirus can be concentrated during the process of filter feeding. Consumption of such shellfish, particularly when eaten raw, can pose a risk of gastroenteritis.

Reassurance is key, by utilising Neogen's technical expertise, wide range of testing kits, contract services and customer aftercare you can be assured that you are protecting your brands integrity.

- Neogen Europe Ltd. have been a leading provider of food safety testing solutions for over 25 years
- Complete range of marine biotoxin testing solutions (ASP, DSP, PSP)
- Established testing solutions, proven to accurately detect unwanted toxins
- Expert contract laboratory services for ASP, DSP, PSP and Norovirus in all major bivalve shellfish

Our products have inspired wide acceptance and use throughout the seafood industry. The addition of our test for PSP toxins means we now offer a complete range of tests for shellfish toxins, including testing for ASP and DSP toxins. Our new test also represents a significant advancement in shellfish toxin testing technology, with our Reveal 2.0 for PSP test, we can provide accurate results in only 5 minutes after extractions – other tests for PSP can take up to 3 hours



For further information or to place an order please contact + 44 (0) 1292 525 610

Neogen Europe Ltd. • The Dairy School • Auchincruive, Ayr, Scotland • KA6 5HU
Tel: +44 (0)1292 525610 • Fax: +44 (0)1292 525602
www.neogeneurope.com • info_uk@neogeneurope.com

Marine Biotoxin On-Site Test Kits

- Results in as little as 5 minutes
- Easy to use single-step test
- Consistent interpretation of results using AccuScan Pro Reader

9560	Reveal 2.0 for ASP	Screens at 20 ppm	10 minutes to result	24 samples per kit
9561	Reveal 2.0 for DSP	Screens at 160 ppb	15 minutes to result	24 samples per kit
9562	Reveal 2.0 for PSP	Screens at 800 ppb	5 minutes to result	24 samples per kit
9563	Marine Biotoxins Starter Kit	Microwell holder, bag clip and roller		
9565	AccuScan® Pro Reader	Touch screen lateral flow reader		

Contract Laboratory Analysis

- Dedicated customer service support to discuss results
- Confidential results
- Services are subject to extensive, quality control and regular quality assurance

	Amnesic Shellfish Poisoning (ASP)	Diarrhetic Shellfish Poisoning (DSP)	Paralytic Shellfish Poisoning (PSP)
Toxin Measured	Domoic Acid, Epidemic Acid	Okadaic Acid, Dinophysins Toxins 1, 2, 3	Saxitoxin
Method	HPLC-PDA	LCMS-MS	ELISA
Minimum Level Of Toxin Detected And Quantified	4mg/kg - 40mg/kg	25 µg/kg - 400 µg/kg	100 µg/kg - 800 µg/kg
EU Maximum Limit In Shellfish Flesh	20 mg/kg shellfish flesh	OAs/DTXs/PTXs: 160 µg [OA eq.] /kg shellfish flesh	800 µg [STX eq.] /kg shellfish flesh

Norovirus

Shellfish are amongst food groups that are most often associated with Norovirus outbreaks, which can account for up to 50% of all foodborne outbreaks of gastroenteritis. Neogen's contract laboratory is able to perform real time RT-PCR testing.

Sample Requirements

- As sample sizes can vary between species, please contact your technical representative for recommended sizes
- Samples must be delivered fresh on ice or frozen
- Sample submission forms must include batch numbers and testing requirements
- For further information regarding our UKAS accreditation or technical support, call **+ 44 (0) 1292 525 610** or e-mail **info_uk@neogeneurope.com**

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