

## BT-11 Lipophilic Shellfish Toxins

Year: 2024	Participants: 40 laboratories expected
Number of rounds: 2 per year	Start exercise: 1 April, 1 October
Number of materials: 4 per round	Sample size: 5 ml

[Participation form](#)
[Timetable](#)
[PT Scheme](#)
[Costs](#)

This study covers the determination of organotin compounds in biota test materials. As we expect relatively low number of participants, this exercise can only be joined for both rounds

## Test Materials

The test materials cover a range of natural biota species from contaminated waters from the North Sea and/or Mediterranean. The supplied wet biota test materials are homogenised and sterilised by autoclaving. These biota test materials have been shown to be stable over a number of years when stored at room temperature.

## Determinands and Concentration Ranges

The lipophilic shellfish toxins to be determined are given in the table below. The table also shows:

- The expected concentration range for the determinands in the test materials.
- The constant and proportional error that will be used for assessment of the results.

Determinand*	Unit	Concentration range	Error	
			Const	Prop
<b>Free-Okadaic-Acid</b>	µg/kg	0.5-500	2.5	20.0%
<b>Free-DTX1 (dinophysistoxin)</b>	µg/kg	0.2-500	1	25.0%
<b>Free-DTX2</b>	µg/kg	0.5-1000	1.25	20.0%
<b>Total-Free-OA+DTX1+DTX2</b>	µg OA eq./kg	0.5-1000	5	20.0%
<b>Total-Okadaic-Acid</b>	µg/kg	0.5-500	5	20.0%
Total-DTX1	µg/kg	0.5-1000	1.5	25.0%
<b>Total-DTX2</b>	µg/kg	0.5-1000	3	20.0%
<b>Total-hy-OA+DTX1+DTX2</b>	µg OA eq./kg	0.5-1000	8	20.0%
PTX-1 (Pectenotoxin)	µg/kg	0.5-20		
<b>PTX-2</b>	µg/kg	0.2-50	0.3	25.0%
<b>Total OA group and PTX group</b>	µg OA eq./kg	0.5-1000	10	17.5%
<b>AZA-1 (Azaspiracide)</b>	µg/kg	0.5-1500	1.5	20.0%
<b>AZA-2</b>	µg/kg	0.5-500	1	20.0%
<b>AZA-3</b>	µg/kg	0.5-500	1.5	20.0%
<b>AZA-total</b>	µg AZA eq./kg	0.5-5000	5	17.5%
<b>YTX (Yessotoxin)</b>	mg/kg	0.01-2	0.01	22.5%
<b>homo-YTX</b>	mg/kg	0.5-5	0.01	22.5%
45-OH-homo-YTX	mg/kg	0.5-5	0.05	25.0%
45-OH-YTX	mg/kg	0.02-2	0.02	25.0%
<b>YTX-total</b>	mg YTX eq./kg	0.01-10	0.02	20.0%

\* These determinands are not in the scope of accreditation.