



QUASIMEME

Quality assurance of information
for marine environmental monitoring

Certificate of Analysis



DSP shellfish toxins

REFERENCE MATERIAL

BT11 sample 30



Certificate of Analysis BT11 30

General Information

In this report an overview is given of analytical data for this sample collected in our proficiency testing program. The consensus values are calculated using a robust statistical model. With this NDA model mean and standard deviation are calculated using all reported data when at least 4 results are left after removal of reported 'lower than' (<) and 0 (= zero) values. No outliers are removed.

This report is divided into two sections: Consensus Values and Indicative Values. The division is made on the reliability of the data. Consensus Values are based on at least 10 results while the relative uncertainty is smaller than 6.25%. Indicative Values are based on a relative uncertainty of maximum 35% with at least 4 and less than 10 results or a relative uncertainty higher than 6.25%.

For each determinand the following parameters are given: mean, standard deviation, coefficient of variation, number of results, median, MAD (Median of Absolute Deviation) and the uncertainty in the assigned value. The confidence limits (at 95 % probability) are calculated for these determinands.

The results of each determinand is expressed on a wet weight basis.

Sample information

QUASIMEME reference materials cover a range of natural Shellfish toxins species from contaminated waters from the North Sea and/or Mediterranean.

This BT11 sample 30 of Mussel (*Mytilus Edulis*) from Marine Institute, Galway, Ireland is prepared for the QUASIMEME proficiency programs. The results on which the values in this report are based were taken from the periods given in the following table.

Year.Round	Program	Sample Round Id
2021.2	BT11	QST310BT



Consensus Values BT11

Method: Toxins(SF) - BT11

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	95 % confidence limits		
Free-DTX2	µg/kg	213	44.3	20.9	44	215	32.0	8.4	199	-	226
free-Okadaic-Acid	µg/kg	106	21.9	20.7	46	108	14.7	4.0	99.4	-	112
Total-free-OA+DTX1+DTX2	µg OA eq./kg	238	46.0	19.4	42	243	32.6	8.9	223	-	252
Total-DTX2	µg/kg	287	56.4	19.6	45	295	39.5	10.5	270	-	304
Total-Okadaic-Acid	µg/kg	240	34.6	14.4	44	243	23.6	6.5	230	-	251
Total-hy-OA+DTX1+DTX2	µg OA eq./kg	424	85.4	20.1	43	429	61.0	16.3	398	-	451
Total OA group + PTX group	µg OA eq./kg	409	74.8	18.3	30	421	51.7	17.1	381	-	437



Indicative Values BT11

Method: Toxins(SF) - BT11

Element

PTX-2

Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	95 % confidence limits		
µg/kg	2.37	1.557	65.7	15	3.25	1.050	0.502	1.51	-	3.22