

QUASIMEME

Quality assurance of information for marine environmental monitoring

Certificate of Analysis



PSP shellfish toxins

REFERENCE MATERIAL
BT12 sample 15





Certificate of Analysis BT12 15

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 % probabilty) 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 BT12 sample 15 of Mussel tissue (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
2019.2	BT12	QST275BT
2018.2	BT12	QST258BT
2017.1	BT12	QST233BT







Method: Toxins(SF) - BT12

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	95 % confidence limits		
GTX-2	μmol/kg	3.91	0.648	16.6	36	3.82	0.444	0.135	3.69	-	4.13
GTX-3	μmol/kg	1.22	0.222	18.2	35	1.23	0.152	0.047	1.14	-	1.30
STX	μmol/kg	3.30	0.695	21.1	78	3.32	0.485	0.098	3.14	-	3.45
Total toxicity	μgSTXdiHCleq./kg	2220	489	22.0	83	2220	335	67	2115	-	2329
GTX-2,3	µmol/kg	4.62	1.253	27.1	45	4.56	0.853	0.234	4.24	-	4.99







Method: Toxins(SF) - BT12

Element Unit Std.Dev. Ν Median Uncertainty 95 % confidence limits Mean CV % MAD dc-STX µmol/kg 0.0162 0.0178 109.6 18 0.0211 0.0140 0.0052 0.0074 -0.0250