

QUASIMEME

Quality assurance of information for marine environmental monitoring

Certificate of Analysis



DSP shellfish toxins

REFERENCE MATERIAL
BT11 sample 25





Certificate of Analysis BT11 25

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 BT11 sample 25 of Blue 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	QST309BT
2019.1	BT11	QST265BT







Method: Toxins(SF) - BT11

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	95 % con	fiden	ce limits
AZA-1	μg/kg	407	70.0	17.2	86	397	48.0	9.4	392	-	422
AZA-2	μg/kg	115	19.6	17.0	82	117	13.4	2.7	111	-	120
AZA-3	μg/kg	84.9	14.29	16.8	82	84.2	10.11	1.97	81.7	-	88.0
AZA-total	μg AZA eq./kg	748	107.0	14.3	82	737	73.5	14.8	724	-	771
Free-DTX2	μg/kg	102	20.9	20.6	79	101	14.8	2.9	96.8	-	106
free-Okadaic-Acid	μg/kg	45.7	9.44	20.7	79	47.0	6.60	1.33	43.6	-	47.8
Total-free-OA+DTX1+DTX2	μg OA eq./kg	107	18.9	17.6	73	109	13.0	2.8	103	-	112
Total-DTX2	μg/kg	141	32.5	23.1	81	142	22.7	4.5	133	-	148
Total-Okadaic-Acid	μg/kg	92.6	22.18	24.0	80	97.0	15.24	3.10	87.7	-	97.5
Total-hy-OA+DTX1+DTX2	μg OA eq./kg	178	38.0	21.4	77	182	27.3	5.4	169	-	187
Total OA group + PTX group	μg OA eq./kg	179	34.1	19.1	56	183	24.5	5.7	170	-	188