



WEPAL-QUASIMEME

Certificate of Analysis



DSP shellfish toxins

REFERENCE MATERIAL

BT11 sample 39

2026-Aug-11



Certificate of Analysis BT11 39

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, the 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 8 results and a maximum relative uncertainty of 6.25%. Indicative Values are based on a maximum relative uncertainty of 35% and a minimum of 4 and maximum of 7 results, or a relative uncertainty greater than 6.25% when there are at least 8 results.

For each measurand, the following parameters are given: mean, standard deviation, coefficient of variation, number of results, median, MAD (Median of Absolute Deviation), the uncertainty of the mean (consensus or indicative) value and the relative uncertainty.

Please note: Most WEPAL-QUASIMEME reference materials are found to be stable over the long term (>10 years) for most measurand/matrix combinations. There are a few exceptions known to us as being less stable over the long term. These are organotins in sediment (MS6), ASP in shellfish (BT7), some PAHs and PCBs in sediment (SETOC) and N-NH₄ (as N) & N-NO₃ (as N) in clay soils (ISE).

The results of each measurand 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 39 of Mussel tissue from CEFAS, Weymouth, UK is prepared for the QUASIMEME proficiency programs. The results on which the values in this report are based were taken from the rounds given in the following table.

Year.Round	Program	Sample Round Id
2026.1	BT11	QST391BT



Consensus Values BT11

Method: Toxins(SF) - BT11

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
Total-Okadaic-Acid	µg/kg	90.8	21.6	23.8	28	90.7	15.2	5.10	5.62
Total-hy-OA+DTX1+DTX2	µg OA eq./kg	98.2	20.6	20.9	27	102	12.9	4.95	5.04



Indicative Values BT11

Method: Toxins(SF) - BT11

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
free-Okadaic-Acid	µg/kg	12.3	5.90	48.0	12	15.0	3.32	2.13	17.3
Total-free-OA+DTX1+DTX2	µg OA eq./kg	16.4	9.06	55.4	12	16.5	5.40	3.27	20.0
Total-DTX1	µg/kg	8.02	8.61	107.4	8	12.7	4.29	3.81	47.5
AZA-1	µg/kg	8.00	2.95	36.9	9	7.59	1.54	1.23	15.4
AZA-total	µg AZA eq./kg	8.86	4.92	55.6	13	10.2	3.17	1.71	19.3
Total OA group + PTX group	µg OA eq./kg	97.0	21.4	22.0	18	101	12.6	6.29	6.49