

QUASIMEME

Quality assurance of information for marine environmental monitoring

Certificate of Analysis



Biota

REFERENCE MATERIAL

Biota sample 312





Certificate of Analysis Biota 312

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 Biota species from contaminated waters from the North Sea and/or Mediterranean. The supplied wet test materials are homogenised and sterilised by autoclaving.

This Biota sample 312 of Mussels from Ostend harbor + Wadden Sea 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			
2019.1	BT8	QSP069BT			
2016.1	BT8	QSP056BT			







Method: Organometals - BT8

Element Std.Dev. Uncertainty 95 % confidence limits Unit Mean CV % Ν Median MAD Tributyltin (TBT) 1.43 μg Sn/kg 1.51 0.175 11.6 22 1.53 0.120 0.047 1.59







Method: Organometals - BT8

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	95 % confidence limits		
DibutyItin (DBT)	μg Sn/kg	1.16	0.247	21.3	17	1.17	0.170	0.075	1.03 -	1.29	
MonobutyItin (MBT)	μg Sn/kg	1.01	0.336	33.2	15	1.11	0.210	0.108	0.827 -	1.20	