



QUASIMEME

Quality assurance of information
for marine environmental monitoring

Certificate of Analysis



Ocean acidification

REFERENCE MATERIAL

AQ15 sample 18



Certificate of Analysis AQ15 18

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.

Sample information

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

This AQ15 sample 18 of Seawater from Baltic 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
2023.2	AQ15	QOA018EW



Consensus Values AQ15

Method: Ocean acidification - AQ15

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	95 % confidence limits		
pH	-	8.04	0.048	0.6	10	8.05	0.027	0.019	8.00	-	8.07
Dissolved Inorganic Carbon	μmol/kg	1601	9.7	0.6	14	1599	5.6	3.2	1595	-	1606
Total Alkalinity	μmol/kg	1786	11.4	0.6	17	1785	5.9	3.5	1781	-	1792