



WEPAL-QUASIMEME

Certificate of Analysis



Ocean acidification

REFERENCE MATERIAL

AQ15 sample 33

2026-Aug-13



Certificate of Analysis AQ15 33

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).

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 33 of Seawater unspiked from unknown 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	AQ15	QOA033SW



Consensus Values AQ15

Method: Ocean acidification - AQ15

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
Dissolved Inorganic Carbon	μmol/kg	2101	7.26	0.3	9	2101	4.00	3.02	0.144
Total Alkalinity	μmol/kg	2333	9.06	0.4	14	2333	4.55	3.03	0.130



Indicative Values AQ15

Method: Ocean acidification - AQ15

Element

pH

Unit

-

Mean

7.99

Std.Dev.

0.089

CV %

1.1

N

6

Median

7.99

MAD

0.058

Uncertainty

0.045

Rel.Uncert. %

0.567