

# QUASIMEME

Quality assurance of information for marine environmental monitoring

## **Certificate of Analysis**



Ocean acidification

**REFERENCE MATERIAL** 

AQ15 sample 24





#### Certificate of Analysis AQ15 24

#### **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 determinand 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.

#### 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 24 of Seawater spiked with DIC from unknown 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		
2024.2	AQ15	QOA024SW		



### Consensus Values AQ15



Method: Ocean acidification - AQ15									
Element	Unit	Mean	Std.Dev.	CV %	Ν	Median	MAD	Uncertainty	Rel.Uncert. %
рН	-	8.23	0.081	1.0	10	8.23	0.059	0.032	0.391
Dissolved Inorganic Carbon	µmol/kg	1877	6.12	0.3	11	1877	3.82	2.31	0.123
Total Alkalinity	µmol/kg	2269	8.24	0.4	19	2268	4.12	2.36	0.104