



# QUASIMEME

Quality assurance of information  
for marine environmental monitoring

---

## Certificate of Analysis



DOC in Estuarine and Seawater

REFERENCE MATERIAL

AQ14 sample 107

---



## Certificate of Analysis    AQ14 107

### 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 AQ14 sample 107 of Low salinity seawater spiked with DOC from North Sea (diluted) 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     | AQ14    | QDC104EW        |



### Consensus Values    AQ14

Method: Dissolved Organic Carbon - AQ14

| Element | Unit   | Mean | Std.Dev. | CV % | N  | Median | MAD   | Uncertainty | 95 % confidence limits |   |      |
|---------|--------|------|----------|------|----|--------|-------|-------------|------------------------|---|------|
| DOC     | C mg/L | 7.82 | 0.358    | 4.6  | 19 | 7.84   | 0.245 | 0.103       | 7.65                   | - | 7.99 |