

AQ-14 DOC in Seawater					
Year	2021	Number of Rounds / Year	2	Number of Materials	4
Distribution	April, October (20 laboratories expected)				
Participation fee	€500,=				

Introduction

This study covers the determination of dissolved organic carbon in the seawater test materials. The test materials are prepared in bulk, following the well-defined methods of A. Aminot and R. Kerouel (Analytical Chimica Acta 248(1991), pp.277-283 and Marine Chemistry 49(1995) pp.221-232).

Test Materials

Low nutrient seawater (LNSW), collected from the Eastern Atlantic Ocean during the late spring and summer months after the main plankton bloom, is used to prepare the test materials. This seawater is filtered to remove bacteria and particles.

Homogeneity testing is performed on each batch of test materials produced. The test materials are stable for the period of the test, and have also been shown to be stable for a period of some months even after opening but used under the correct conditions following the storage instructions.

Determinands and Concentration Ranges

The DOC content should be analysed in the distributed glass bottles.

The table below also shows:

- The expected concentration range for DOC in the spiked seawater materials.
- The constant and proportional error that will be used for assessment of the results.

Determinand	Unit	Concentration range	Error		AA-EQS
		Seawater (spiked)	Const	Prop	
DOC	mg C/L	0.1—20	0.1	6.0%	

Determinands in bold are in the scope of the accreditation