

AQ-15 Ocean acidification					
Year	2021	Number of Rounds / Year	2	Number of Materials	3
Distribution	April (20 laboratories expected)				
Participation fee	€500,= (indication)				

### Introduction

This study covers the determination of total alkalinity and dissolved inorganic carbon in the seawater test materials. The test materials are prepared in bulk.

### Test Materials

Low nutrient seawater (LNSW), collected from the Eastern Atlantic Ocean and Baltic Sea 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 under the correct conditions following the storage instructions.

### Determinands and Concentration Ranges

The DIC content and Total Alkalinity should be analysed in the distributed glass bottles.

The table below also shows:

- The expected concentration range for DIC 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	
DIC	µmol/kg	10 - 5000			
Total Alkalinity	µmol/kg	100 - 5000			

*Determinands in bold are in the scope of the accreditation*

*The constant and total error used for the z-score calculations will be determined by the SAB as soon as possible*