

3. carbonates (¹³C, ¹⁴C, ¹⁸O)

General: the sample bottles or sealed plastic bags have to be well locked. Label the bottles or bags with a clear and unambiguous number.

Sampling

For analysis an amount of 0.16 mmole (4 ml) CO₂ is required. For carbonate samples an amount of 40 mg is usually sufficient. To make a duplicate determination possible ca. 100 mg material is preferred. If the CaCO₃ content is less than 80%, more material is requested.

Sample conservation and mailing

The sample should be sent to the laboratory preferably in a non breakable, completely closed bottle or in a sealed plastic bag. In this condition the sample can be stored for months. For an ¹⁸O analysis it is necessary that the samples cannot absorb moisture. The sample should be send in an airtight bottle or bag.