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Certificate of Analysis
Part No. B2382
Carbon and Sulfur in Limestone

Analytical Results

% Carbon	**% Sulfur**
Mean = 5.89	Mean = 0.031
Expanded Uncertainty = ± 0.29	Expanded Uncertainty = ± 0.011
(k=2, @95% confidence) (n=74)	(k=2, @95% confidence) (n=59)

Reference Materials Employed for traceability:
NCS – DC28091, DC73326a, DC14019a
ECRM – 701-1, 702-1
NIST – SRM 1d

Method of analysis: ASTM E1915-20

**The analytical results above are provided by an accredited reference material manufacturer with a current certification in ISO 17025 and 17034.*

The intended use of this Reference Material (RM) is for the verification of is for Carbon and Sulfur determination in limestone or other similar matrix materials using induction and resistance type oxygen combustion furnaces with infrared detection systems. Accelerants like Tungsten Trioxide (WO3) were used in the resistance furnace. Tungsten metal and iron chip accelerators were used in the induction analysis.

The minimum sample size to perform this intended use is 150-350mg nominal. Refer to your instrument manufacturer for typical sample analysis size.

The Period of Validity for this RM is not able to be determined and should be reviewed 20 years after the date below.

This bottle contains 25g of fine powder to be used directly from the bottle without preparation or per the test method you follow. Keep sealed tightly and store under normal laboratory conditions.

Refer to your test methods and or manufacturer manual for expanded uncertainties, repeatability/reproducibility factors.

For good laboratory practice, we recommend that all reference materials be verified as fit for purpose prior to use. Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Elemental Microanalysis Ltd. be liable for incidental or consequential damages.

Certified on the 8th of August 2023.

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