Elemental Microanalysis Ltd

Certificate of Analysis

Cold water fish gelatin standard Cat. No. B2219 – Certificate No. 426932

General

This Analytical Standard (OAS) consists of a homogenous batch of Gelatin(e) powder for use as a routine working laboratory standard in the determination of C, N, H and S and of the stable isotopes ¹³C, ¹⁵N and ³⁴S.

This gelatin(e) is of fish origin. Those with a fish allergy should handle with appropriate care.

Values and Uncertainty

The uncertainty in the quoted values is expressed as σ (1 standard deviation). Confidence limits include those errors due to sampling variation, weighing, calibration and measurement.

This material may be used in method development, performance monitoring or as part of a quality control programme.

Values are traceable to primary standards issued by N.I.S.T. and I.A.E.A Vienna. *It is not intended for this to be a substitute for such primary standards.*

Results

Nitrogen	% = 16.63 ¹⁵ N _{V-AIR} = +14.71‰	σ = 0.12% σ = 0.14‰
Carbon	$\% = 42.93$ 13 C _{V-PDB} = -16.33‰	$\sigma = 0.29\%$ $\sigma = 0.10\%$
Sulfur	$\% = 0.43$ $^{34}S_{V-CDT} = +17.05$	$\sigma = 0.01\%$ $\sigma = 0.07\%$
Hydrogen	% = 6.86	$\sigma = 0.14\%$

Expiration

The values quoted are valid until **22 June 2028** within the measurement uncertainties specified.

Storage and Use

This OAS should be stored between 15°C to 25°C and should be kept tightly sealed away from light and moisture.

<u>Information</u>

The technical aspects involved in the preparation and issuance of this (In)Organic Analytical Standard (IAS/OAS) were carried out at Elemental Microanalysis Ltd, Okehampton, Devon EX20 1UB UK, Tel +44 1837 54446

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For and on behalf of Elemental Microanalysis Ltd

> Elemental Microanalysis

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