Elemental Microanalysis Ltd

Certificate of Analysis

Gelatin powder standard
Cat. No. B2215 – Certificate No. 308034

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, O and S and of the stable isotopes ¹³C, ¹⁵N, ¹⁸O 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 (as bottled)*

Nitrogen	$\% = 16.55$ $^{15}N_{V-AIR} = +4.26\%$	$\sigma = 0.10\%$ $\sigma = 0.12\%$
Carbon	$\% = 43.78$ $^{13}C_{V-PDB} = -22.92\%$	$\sigma = 0.15\%$ $\sigma = 0.10\%$
Oxygen	% = 28.61 ¹⁸ O _{V-SMOW} = +6.76‰	$\sigma = 0.15\%$ $\sigma = 0.20\%$
Sulfur	% = 0.51 ³⁴ S _{V-CDT} = +1.21	$\sigma = 0.1\%$ $\sigma = 0.24\%$
Hydrogen	% = 6.97	$\sigma = 0.10\%$

Expiration

The values quoted are valid until 10 March 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.

Information

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



Jon Davies Technical Director

^{*}Data given above is based on the product "as bottled" with the exception below. Samples for ¹⁸O determination should be thoroughly dried and stored in a dessicator prior to use.