Elemental Microanalysis Ltd

Certificate of Analysis

Fish gelatin powder standard Cat. No. B2215 – Certificate No.451296

<u>General</u>

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, 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. (143d Cystine), the I.A.E.A. (IAEA 600, S1 and S2) and USGS 40 and 41a.

It is not intended for this to be a substitute for such primary standards.

Results

Nitrogen	% = 16.33	σ = 0.08%	n = 20
	¹⁵ N _{V-AIR} = +4.59‰	σ = 0.15‰	n = 58
Carbon	% = 43.18	σ = 0.24%	n = 20
	¹³ C _{V-PDB} = -22.98‰	σ = 0.19‰	n = 55
Sulfur	% = 0.41	σ = 0.01%	n = 20
	³⁴ Sv-cdt = +0.69‰	σ = 0.30‰	n = 25

Expiration

The values quoted are valid until **06 July 2029** 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 Email enquiries@microanalysis.co.uk

For and on behalf of Elemental Microanalysis Ltd

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