

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 ^{13}C , ^{15}N and ^{34}S .

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 $^{15}\text{N}_{\text{V-AIR}} = +14.71\text{‰}$	$\sigma = 0.12\%$ $\sigma = 0.14\text{‰}$
Carbon	% = 42.93 $^{13}\text{C}_{\text{V-PDB}} = -16.33\text{‰}$	$\sigma = 0.29\%$ $\sigma = 0.10\text{‰}$
Sulfur	% = 0.43 $^{34}\text{S}_{\text{V-CDT}} = +17.05\text{‰}$	$\sigma = 0.01\%$ $\sigma = 0.07\text{‰}$
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.

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

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For and on behalf of
Elemental Microanalysis Ltd

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