

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 ^{13}C , ^{15}N , ^{18}O 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 value 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	$\sigma = 0.10\%$
	$^{15}\text{N}_{\text{V-AIR}} = +4.26\text{‰}$	$\sigma = 0.12\text{‰}$
Carbon	% = 43.78	$\sigma = 0.15\%$
	$^{13}\text{C}_{\text{V-PDB}} = -22.92\text{‰}$	$\sigma = 0.10\text{‰}$
Oxygen	% = 28.61	$\sigma = 0.15\%$
	$^{18}\text{O}_{\text{V-SMOW}} = +6.76\text{‰}$	$\sigma = 0.20\text{‰}$
Sulphur	% = 0.51	$\sigma = 0.03\%$
	$^{34}\text{S}_{\text{V-CDT}} = +1.21$	$\sigma = 0.24\text{‰}$
Hydrogen	% = 6.97	$\sigma = 0.10\%$

Expiration

The values quoted are valid until **18 May 2022** 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.

*Data given above is based on the product “as bottled” with the exception below.

Samples for ^{18}O determination should be thoroughly dried and stored in a dessicator prior to use.

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, Fax +44 1837 54544, Email info@microanalysis.co.uk.

For and on behalf of
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