# **Elemental Microanalysis Limited**

# Certificate of Analysis

# High Organic Sediment Standard OAS Cat No B2150 - Certificate No 264236

#### General

This Organic Analytical Standard (OAS) consists of a homogeneous batch of High Organic Sediment Standard for use as a routine working microanalytical standard for the determination of Carbon, Nitrogen and Sulphur.

#### **Certified Values and Uncertainty**

The uncertainty in the certified value is expressed as expanded uncertainty, U, at 95% confidence and is calculated in accordance with ISO/IEC17025 according to GUM (Guidelines to Uncertainty in Measurement). Confidence limits include those due to sampling variation, weighing, calibration and measurement errors. The certified values are based upon the results of 30 determinations.

The certified values for Carbon and Nitrogen were determined by elemental analyser calibrated to Cystine 143d from National Institute of Standards and Technology (NIST), Maryland, USA.

The certified values for Sulphur were determined by elemental analyser calibrated to Cystine 143d from National Institute of Standards and Technology (NIST), Maryland, USA.

	Element	Certified Value	Uncertainty
As bottled values		(% w/w)	(+/- %)
	Carbon	7.45	0.14
	Nitrogen	0.52	0.02
	Sulphur	0.62	0.02

## **Expiration of Certification**

The certification of this OAS is valid until 16-Jul-27 within the measurement uncertainties specified.

# Storage and Use

This OAS should be stored at temperatures between 20°C to 25°C and should be kept tightly sealed away from light and moisture. It is non-hygroscopic under normal conditions and can be used without preliminary drying.

## **Certification Information**

The technical aspects involved in the preparation, certification and issuance of this (In)Organic Analytical Standard (IAS/OAS) were carried out at Elemental Microanalysis Limited, Okehampton, Devon, EX20 1UB, UK, Tel +44 1837 54446, Fax +44 1837 54544, Email info@microanalysis.co.uk.

for and on behalf of Elemental Microanalysis Limited



Jon Davies
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