

# Certificate of Analysis

**Medium Organic Content Sediment OAS**  
**CatNo B2178 - CertificateNo 395566**

**General**

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

**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 24 to 29 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.

	<i>Element</i>	<i>Certified Value</i>	<i>Uncertainty</i>
		<i>(% w/w)</i>	<i>(+/- %)</i>
<b>As bottled values</b>	<b>Carbon</b>	<b>2.46</b>	<b>0.22</b>
	<b>Nitrogen</b>	<b>0.16</b>	<b>0.01</b>
	<b>Sulphur</b>	<b>0.019</b>	<b>0.006</b>

**Expiration of Certification**

The certification of this OAS is valid until 10-Apr-25 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

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