

Certificate of Analysis

Low Organic content Soil Standard OAS
Cat No B2152 & B2153 - Certificate No 324703

General

This Organic Analytical Standard (OAS) consists of a purified and homogeneous batch of Low Organic content Soil Standard for use as a routine working microanalytical standard for the 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 23 to 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.

<i>Element</i>	<i>Certified Value</i> (% w/w)	<i>Uncertainty</i> (+/- %)
Carbon	1.86	0.14
Nitrogen	0.122	0.018
Sulphur	0.012	0.003

Expiration of Certification

The certification of this OAS is valid until 12-Feb-22 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 enquiries@microanalysis.co.uk.

Elemental Microanalysis is accredited in accordance to ISO/IEC 17025:2005 (Testing Laboratory no. 4260)

for and on behalf of
Elemental Microanalysis Limited



Jon Davies
Technical Director