

Certificate of Analysis

Incinerator ash TOC/ROC/TIC standard

Cat No. B2294 – Certificate no. 333923

General

This Analytical Standard (OAS) consists of a homogenous batch of incinerator ash for use as a routine working laboratory standard in the determination of TOC (total organic carbon), ROC (residual oxidizable carbon) and TIC (total inorganic carbon).

The analyses have been conducted according to DIN 19539 whereby:

TOC = TOC₄₀₀ Organic carbon measured up to 400°C
ROC Residual oxidizable carbon
TIC = TIC₉₀₀ Inorganic carbon measured 600 to 900°C

Values and Uncertainty

Results shown are derived from an Interlaboratory (round-robin) exercise using equipment from a variety of manufacturers.

The uncertainty is expressed as k=1, 68% confidence limits (one standard deviation).

	TOC	ROC	TIC	TC (sum)
Mean Value (% w/w)	LOQ*	0.79	0.28	1.10
S.D. (%)		0.15	0.13	0.08

*LOQ – Limit of quantification (<0.1%)

Expiration

The values quoted are valid until **1st April 2029** within the measurement uncertainties specified.

Should the sample become contaminated or altered in any way the certification will be void.

Storage and use

This OAS should be stored between 20°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 EX20 1UB UK, Tel +44 1837 54446, Fax +44 1837 54544, Email info@microanalysis.co.uk.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Elemental Microanalysis Ltd be liable for incidental or consequential damages.

For and on behalf of
Elemental Microanalysis Ltd

Jon Davies
Technical Director

