



# Analysis for all your needs



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# Timely. Tested. Trusted.

Results to meet your schedule.

Choose from standard (5-day) or expedited services.

ISO 17025 accreditation: UKAS Accredited Testing Laboratory No. 4260.

Company Management System holds full approval to ISO 9001.

Since 1976 we have offered fast, accurate elemental analysis to our customers.

Today we offer expanding services to all sectors of the analytical world.

## Organic Analysis

Our ISO 17025 UKAS accredited analysis service for organic samples provides fast results for CHN, O, S, and N/protein. Sample preparation is available too.

## Air Sensitives Analysis

Our laboratory has expert proficiency in handling air sensitive organic samples within our scope of accreditation.

## TOC Analysis

We offer TOC analysis for solid samples using combustion EA; and TOC analysis of water using combustion catalytic oxidation, which can also provide related parameters TIC, TC, NPOC, DOC.

## IRMS (Stable Isotope) Analysis

Our service focuses on  $^2\text{H}$ ,  $^{13}\text{C}$ ,  $^{15}\text{N}$ ,  $^{18}\text{O}$  and  $^{34}\text{S}$  isotope ratios in a wide range of samples types; samples are analysed by continuous flow IRMS.

## Inorganic Analysis

We offer elemental analysis of a wide variety of sample types, including metals, minerals, raw materials, and oxidic substances; specialising in trace elements.

## Halogen Analysis

Our halogen analysis service for F, Cl, Br and I uses oxygen flask combustion prior to ion chromatography, with results in less than 10 business days.

## Ash and Moisture Content Analysis

Other services include ash analysis to determine the inorganic residue remaining after heating at high temperatures; and moisture content by weight loss in air at specified temperature, tailored specifically to your requirements.

Our analysts have particular expertise in handling and analysis of air sensitive and liquid samples, providing accurate, reliable results. Our instruments are calibrated using NIST traceable ISO 17034 certified reference standards, and our laboratory routinely uses consumables produced by our ISO 9001 accredited company.

Analysis options include single, duplicate or triplicate replicates. We offer a 5-day turn-around time for CHN/O/S as standard, or an expedited service for a small added charge. Contact us for details.

By offering a dynamic array of options for both the number of replicates and the analysis timing, we aim to best serve any individual lab needs.

Our testing expertise covers a diverse range of sample types and applications.

We routinely analyse anything from synthesised chemicals to natural materials; from oils to rubber; from pharmaceuticals to polypeptides.

We invite you to join a growing number of customers who draw upon our expertise in obtaining reliable results for elemental determination.

Whether you have a single sample, or an on-going research program, we offer you commitment to precision and accuracy at an affordable price. We won't keep you waiting for your results either!





## Sample Size Requirements

Analysis Type	Test	ISO 17025 accredited	Ideal Sample Size for Anticipated %			Limit of Detection
			<1%	1% to 5%	>5%	
Organic	CHN Analysis	Yes	>20 mg	>10 mg	>2 mg	0.01%
Organic	Oxygen	Yes	>40 mg	>20 mg	>2 mg	0.05%
Organic	Sulfur	Yes	>20 mg	>10 mg	>2 mg	0.02%
Organic	Nitrogen / Protein	Yes	>20 mg	>10 mg	>2 mg	0.03%
Organic	TOC in solids		>100 mg	>20 mg	>5 mg	0.01%
Organic	TOC in waters			>50 ml		0.1 mg/l
IRMS	$^2\text{H}$ , $^{13}\text{C}$ , $^{15}\text{N}$ , $^{18}\text{O}$ , $^{34}\text{S}$		Contact us			N/A
Halogens by IC	F/Cl/Br/I		>100 mg	>10 mg	>1 mg	ppb
Inorganic	Fe base, Cu base, trace elements, minerals		>1 g*	>1 g*	>1 g*	Contact us
Inorganic	Raw material		>50 g*	>50 g*	>50 g*	Contact us
Ash content				100 mg		
Moisture content				30-50 g		

\*Dependent on required procedure. Sample preparation can be performed by the laboratory. Contact us for details

Sample submission forms can be found at: [elementallab.co.uk/submit-a-sample](https://elementallab.co.uk/submit-a-sample)

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