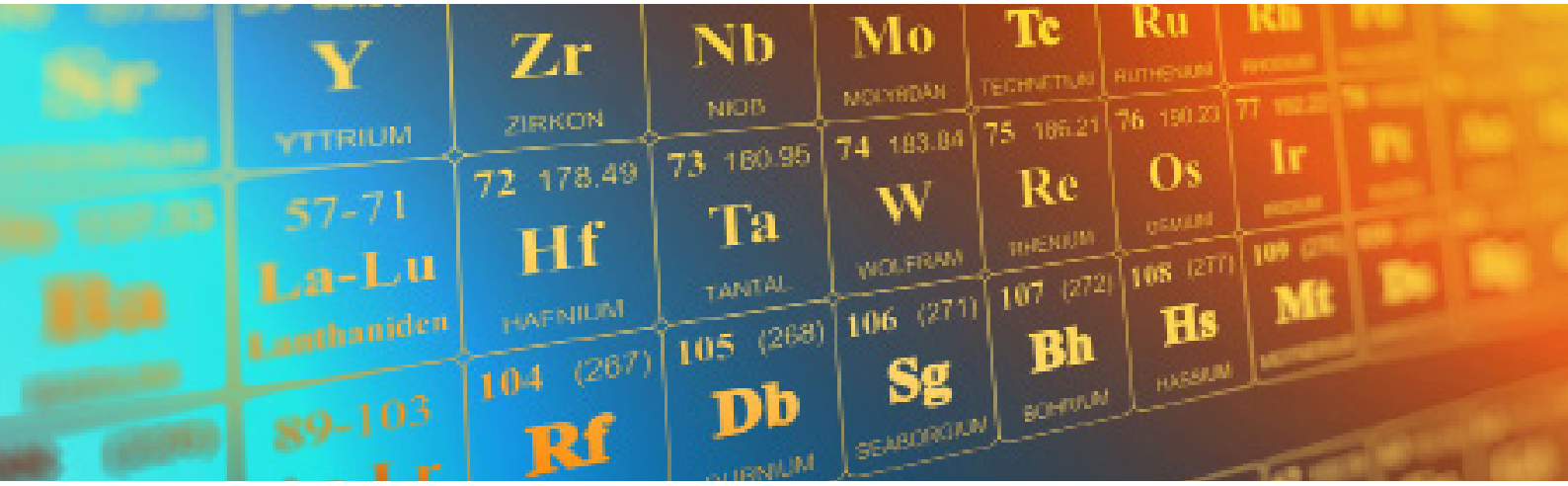
Trace and ultra-trace elemental analysis

right solutions.
right partner.



ALS Scandinavia provides the analytical technology, knowledge and experience for quantifying elemental concentrations of more than 70 elements in a large number of materials and matrices. Trace metal analysis has been the specialty of ALS Scandinavia's laboratory in Luleå, Sweden for over 20 years.

ALS Scandinavia capabilities

The ALS trace elements laboratory is designed to enable handling of sensitive sample types to minimise cross-contaminations. We perform analyses in most sample materials and matrices. We offer you:

- More than 70 elements including heavy metals, trace elements, REE (rare earth elements), TCE (technology-critical elements) and halogens analysed routinely.
- Measurements at low concentrations with small sample amounts. Ultra trace elemental analyses for high purity water down to pg/l levels.
- Short turnaround times, 6-10 working days and capability for express analysis.
- Client specific methods, method development and validations can be offered.
- Highly qualified and experienced staff available for support during the whole project.

Applications

Trace and ultra-trace elemental analyses with extended elemental coverage and state-of-the-art limits of detection are useful for several applications, such as:

- Estimating background levels in environmental samples such as water, biota, sediment, etc.
- Identifying elemental pattern of an extended number of trace and ultra-trace elements. Data can be used to select elements for routine monitoring.
- Elemental impurity analysis for a broad range of matrices, ranging from metals to ultra-pure chemicals.
- Together with stable isotope analysis, trace and ultra-trace analyses are used for authentication of food origin or geographic origin of forensic or archeological matrices.

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