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# Metal speciation analysis



By combining our cutting-edge technology, experience and in-house research, ALS offers you the latest in the field of metals speciation. Our laboratory has more than a decade of experience in metal speciation testing and is specialised in measuring the most toxic arsenic (As), mercury (Hg), selenium (Se) and organotin (OTC) compounds.

## ALS Scandinavia capabilities

To meet the growing demands of metal speciation analyses, the ALS Scandinavia laboratory in Luleå, Sweden, offers analyses utilising GC-ICP-MS and IC-ICP-MS:

- Inorganic arsenic (arsenite, arsenate, dimethylarsinate and monomethylarsonate)
- Methylmercury
- Selenite and selenate
- Organotin compounds (MBT, DBT, TBT, TTBT, MOT, DOT, TCHT, MPhT, DPhT and TPhT)

Matrices:

- Fresh and drinking waters
- Sea and brackish waters
- Soil, sediment, sludge, solid waste
- Feed, foodstuff
- Blood, serum, plasma, urine

## Why speciation?

The toxicity, bioavailability and mobility of an element can be highly dependent on the form in which it is present. Consequently, speciation analysis can provide valuable additional information and insight compared to a traditional measurement of the total elemental concentration. Over the last few years, new legislation and guidelines have been published that introduce threshold values for organotin compounds, inorganic arsenic and methylmercury.

