

Uranium-238 Screen by ICP-MS

Solids

A sub sample is dissolved in a mixture of mineral acids.

An aliquot of the digest solution is diluted to an appropriate volume and analysed by inductively coupled plasma mass spectrometry (ICP-MS). The instrument is calibrated externally and is run in peak jumping mode. U-238 only is measured for the screening method, as this isotope will typically represent greater than 99% of the uranium present.

Liquids

An aliquot of the sample solution is diluted and analysed by inductively coupled plasma mass spectrometry (ICP-MS). The instrument is calibrated externally and is run in peak jumping mode. U-238 only is measured for the screening method, as this isotope will typically represent greater than 99% of the uranium present.