

**High-resolution gamma spectrometry**

A known amount of the sample is transferred to an appropriate container to produce a standard counting geometry prior to measurement by high-resolution gamma spectrometry. The high-resolution gamma spectrometry is conducted using high-purity germanium detectors, coupled to computerized multi-channel analysers, with peak search and peak shape functions and validated radionuclide library. System calibration is undertaken for standardized geometries using a nationally traceable "mixed gamma" reference solution, in the energy range 60 keV - 1836 keV.