

ISO 13166:2014-03 (E)

Water quality - Uranium isotopes - Test method using alpha-spectrometry

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms, definitions and symbols	1
4	Principle	2
5	Chemical reagents and equipment	3
5.1	General	3
5.2	Chemical reagents	3
5.3	Equipment	4
6	Sampling and samples	4
6.1	Sampling	4
6.2	Sample storage	4
7	Separation and measurement	5
7.1	Chemical steps	5
7.2	Measurement	5
8	Expression of results	6
8.1	Spectrum exploitation	6
8.2	Calculation of activity concentration	6
8.3	Standard uncertainty	6
8.4	Decision threshold	7
8.5	Detection limit	7
9	Test report	8
Annex A (informative) Chemical separation of uranium		9
Annex B (informative) Preparation of the source by electrodeposition		12
Annex C (informative) Preparation of the source by coprecipitation		15
Annex D (informative) Occurrence of uranium isotopes		17
Bibliography		18