

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