

ISO 9696:2017-10 (E)

Water quality - Gross alpha activity - Test method using thick source

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols	2
5	Principle	2
6	Reagents and equipment	3
6.1	Reagents	3
6.2	Equipment	4
7	Procedure	4
7.1	Sampling	5
7.2	Pretreatment	5
7.3	Concentration stage	5
7.4	Sulfation stage	5
7.5	Ignition stage	6
7.6	Source preparation	6
7.7	Measurement	6
7.8	Background determination	6
7.9	Preparation of the calibration source	6
7.10	Sensitivity and bias	7
7.11	Optimization of the determination	7
8	Contamination check	8
8.1	General	8
8.2	Radon isotopes losses	8
8.3	Polonium losses	8
9	Expression of results	8
9.1	Calculation of activity concentration	8
9.2	Standard uncertainty	9
9.3	Decision threshold	9
9.4	Detection limit	10
9.5	Confidence-interval limits	10
10	Test report	10
Annex A (informative) Performance criteria		12
Bibliography		13