

ISO 9697:2015-04 (E)

Water quality - Gross beta activity in non-saline water - Test method using thick source

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Symbols, definitions, and units	2
4	Principle	3
5	Reagents and equipment	3
5.1	Reagents	3
5.2	Equipment	3
6	Procedure	4
6.1	Sampling	4
6.2	Pretreatment	4
6.3	Concentration stage	4
6.4	Sulfation stage	5
6.5	Ignition stage	5
6.6	Source preparation	5
6.7	Measurement	5
6.8	Determination of counting background	6
6.9	Preparation of calibration sources	6
6.10	Sensitivity and bias	6
6.11	Optimization of the determination	6
7	Source control	7
7.1	Contamination check	7
7.2	Potential disequilibrium of radionuclides	7
8	Expression of results	7
8.1	Calculation of activity concentration	7
8.2	Standard uncertainty	8
8.3	Decision threshold	9
8.4	Detection limit	9
8.5	Confidence limits	9
9	Test report	10
Annex A (informative) Example of performance criteria		11
Bibliography		12