

DIN EN ISO 9696:2018-04 (E)

Water quality - Gross alpha activity - Test method using thick source (ISO 9696:2017)

Contents		Page
European foreword		3
Foreword		4
Introduction		5
1	Scope	7
2	Normative references	7
3	Terms and definitions	7
4	Symbols	8
5	Principle	8
6	Reagents and equipment	9
	6.1 Reagents.....	9
	6.2 Equipment.....	10
7	Procedure	10
	7.1 Sampling.....	11
	7.2 Pretreatment.....	11
	7.3 Concentration stage.....	11
	7.4 Sulfation stage.....	11
	7.5 Ignition stage.....	12
	7.6 Source preparation.....	12
	7.7 Measurement.....	12
	7.8 Background determination.....	12
	7.9 Preparation of the calibration source.....	12
	7.10 Sensitivity and bias.....	13
	7.11 Optimization of the determination.....	13
8	Contamination check	14
	8.1 General.....	14
	8.2 Radon isotopes losses.....	14
	8.3 Polonium losses.....	14
9	Expression of results	14
	9.1 Calculation of activity concentration.....	14
	9.2 Standard uncertainty.....	15
	9.3 Decision threshold.....	15
	9.4 Detection limit.....	16
	9.5 Confidence-interval limits.....	16
10	Test report	16
Annex A (informative) Performance criteria		18
Bibliography		19