

ISO 20921:2019 (E)

Textiles — Determination of stable nitrogen isotope ratio in cotton fibres

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Reagent
6	Apparatus
7	Preparation
7.1	Sampling of test specimen
7.2	Pre-treatment of test specimen
8	Test procedure
8.1	Weighing of aliquot
8.1.1	Determination of weighing amount needed
8.1.2	General weighing procedure
8.2	Natural ¹⁵ N abundance analysis
8.2.1	Instrumentation
8.2.2	General analytical procedure
9	Precision
10	Test report
Annex A	(normative) Identification procedure of organic raw cotton fibres by using stable nitrogen isotope ratios
A.1	General
A.2	Preparation
A.2.1	Sampling of test specimen
A.2.2	Cotton fibres
A.2.3	Soil
A.2.4	Pre-treatment of test specimen
A.2.4.1	Cotton fibres
A.2.4.2	Soil
A.3	Comparison between cotton and soil results
Annex B	(informative) Analytical results of cotton fibres of various origin and process stage
B.1	Example of test results for cotton fabrics from organic certified textiles
B.2	Example of test results for raw cotton fibres