

ISO 21150:2015-12 (E)

Cosmetics - Microbiology - Detection of Escherichia coli

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Diluents and culture media	2
5.1	General	2
5.2	Diluent for the bacterial suspension (tryptone sodium chloride solution)	3
5.2.1	General	3
5.2.2	Composition	3
5.2.3	Preparation	3
5.3	Culture media	3
5.3.1	General	3
5.3.2	Agar medium for the suitability test (see Clause 11) [soybean-casein digest agar medium (SCDA) or tryptic soy agar (TSA)]	3
5.3.3	Enrichment broth	4
5.3.4	Selective agar medium for isolation of Escherichia coli	4
5.3.5	Selective agar medium for confirmation of Escherichia coli	5
6	Apparatus and glassware	6
7	Strains of microorganisms	6
8	Handling of cosmetic products and laboratory samples	6
9	Procedure	6
9.1	General recommendation	6
9.2	Preparation of the initial suspension in the enrichment broth	6
9.2.1	General	6
9.2.2	Water-miscible products	7
9.2.3	Water-immiscible products	7
9.2.4	Filterable products	7
9.3	Incubation of the inoculated enrichment broth	7
9.4	Detection and identification of Escherichia coli	7
9.4.1	Isolation	7
9.4.2	Identification of Escherichia coli	7
10	Expression of the results (detection of Escherichia coli)	8
11	Neutralization of the antimicrobial properties of the product	8
11.1	General	8
11.2	Preparation of inoculum	8
11.3	Suitability of the detection method	8
11.3.1	Procedure	8
11.3.2	Interpretation of suitability test results	9

12	Test report	9
	Annex A (informative) Other enrichment broths	10
	Annex B (informative) Neutralizers of antimicrobial activity of preservatives and rinsing liquids	13
	Bibliography	14