

# ISO 21150:2015-12 (E)

## Cosmetics - Microbiology - Detection of Escherichia coli

---

<b>Contents</b>		<b>Page</b>
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

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