

# ISO 18415:2007-09 (E)

## Cosmetics - Microbiology - Detection of specified and non-specified microorganisms

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	2
4	Principle .....	3
5	Diluents and culture media .....	3
5.1	General .....	3
5.2	Diluent for the microbial suspension (tryptone sodium chloride solution) .....	3
5.3	Culture media .....	4
6	Apparatus and glassware .....	5
7	Strains of microorganism .....	5
8	Handling of cosmetic products and laboratory samples .....	6
9	Procedure .....	6
9.1	General recommendations .....	6
9.2	Preparation of the initial suspension in the enrichment broth .....	6
9.3	Incubation of the initial suspension .....	7
9.4	Isolation of specified and non-specified microorganisms .....	7
9.5	Procedure for identification of the specified microorganism: <i>Pseudomonas aeruginosa</i> ....	7
9.6	Procedure for identification of the specified microorganism: <i>Escherichia coli</i> .....	8
9.7	Procedure for identification of the specified microorganism: <i>Staphylococcus aureus</i> .....	8
9.8	Procedure for the identification of the specified microorganism: <i>Candida albicans</i> .....	9
9.9	Procedure for the identification of non-specified microorganisms .....	9
10	Expression of the results .....	10
10.1	Detection of specified microorganisms .....	10
10.2	Detection of non-specified microorganisms .....	10
10.3	Absence of microorganisms .....	10
11	Neutralization of the antimicrobial properties of the product .....	10
11.1	General .....	10
11.2	Preparation of inoculum .....	10
11.3	Validation of detection method by enrichment .....	11
12	Test report .....	12
Annex A (informative) General scheme for identification of microorganisms .....		13
Annex B (informative) Other Media .....		14
Annex C (informative) Neutralizers of antimicrobial activity of preservatives and rinsing liquids .....		17
Bibliography .....		18