ISO 4973:2023-09 (E)

Cosmetics - Microbiology - Quality control of culture media and diluents used in cosmetics standards

Contents

Page

Foreword ..... **v**

Introduction ..... **vi**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Principle **3**
4.1 General information 3
4.2 pH 3
4.3 Absence of microbiological growth 3
4.4 Growth promotion 3
4.5 Selective and indicative properties 3

5 Diluents, neutralizers and culture media **4**
5.1 General 4
5.2 Diluents and neutralizers 4
5.3 Culture media 4

6 Apparatus and glassware **4**

7 Strains of microorganisms **4**

8 Procedure **6**
8.1 General recommendation 6
8.2 Preparation of strains 6
8.2.1 General 6
8.2.2 Preparation of bacterial and *Candida albicans* suspensions 9
8.2.3 Preparation of *Aspergillus brasiliensis* spore stock suspension 9
8.2.4 Control of the concentration of the calibrated suspension 10
8.3 Absence of microbial growth 10
8.3.1 Solid culture media 10
8.3.2 Liquid culture media and diluents 10
8.4 Growth promotion 10
8.4.1 Solid culture media 10
8.4.2 Liquid culture media 11
8.5 Selective properties 11
8.5.1 Solid culture media — For indicative properties 11
8.5.2 Solid culture media — For inhibition properties 11

9 Expression of results **11**
9.1 Absence of microbial growth 11
9.1.1 Solid culture media 11
9.1.2 Liquid culture media 11
9.2 Growth promotion 11
9.2.1 Solid culture media 11
9.2.2 Liquid culture media 11
9.3 Selective and indicative properties 12
9.3.1 Solid culture media — For indicative properties 12
9.3.2 Solid culture media — For inhibition properties 12

10 Interpretation and acceptance criteria **12**
General

10.1 General 12
10.2 Absence of microbial growth 12
10.3 Growth promotion 12
10.3.1 Solid culture media 12
10.3.2 Growth promotion — Liquid media culture 13
10.4 Selective properties of solid culture media 13
10.4.1 For indicative properties 13
10.4.2 For inhibition properties 13

Annex A (normative) **Specifications for growth promoting, inhibitory and indicative properties of culture media** **14**

Annex B (informative) **Quality control report for culture media** **19**

Bibliography **21**