

DIN EN ISO 18416:2023-01 (E)

Cosmetics - Microbiology - Detection of *Candida albicans* (ISO 18416:2015, Corrected version 2016-12-15 + Amd 1:2022) (includes Amendment :2022)

| Contents | Page |
|--|-----------|
| European foreword | 3 |
| A1 European foreword to Amendment A1 | 4 |
| Foreword | 5 |
| Introduction | 6 |
| 1 Scope | 7 |
| 2 Normative references | 7 |
| 3 Terms and definitions | 7 |
| 4 Principle | 8 |
| 5 Diluents and culture media | 8 |
| 5.1 General | 8 |
| 5.2 Diluent for the yeast suspension (tryptone sodium chloride solution) | 9 |
| 5.2.1 General | 9 |
| 5.2.2 Composition | 9 |
| 5.2.3 Preparation | 9 |
| 5.3 Culture media | 9 |
| 5.3.1 General | 9 |
| 5.3.2 Agar medium for suitability test (see Clause 11) | 9 |
| 5.3.3 Enrichment broth | 10 |
| 5.3.4 Selective agar medium for isolation of <i>Candida albicans</i> | 11 |
| 5.3.5 Corn meal agar with 1 % polysorbate 80 | 12 |
| 6 Apparatus and glassware | 12 |
| 7 Strains of microorganisms | 12 |
| 8 Handling of cosmetic products and laboratory samples | 13 |
| 9 Procedure | 13 |
| 9.1 General recommendation | 13 |
| 9.2 Preparation of the initial suspension in the enrichment broth | 13 |
| 9.2.1 General | 13 |
| 9.2.2 Water-miscible products | 13 |
| 9.2.3 Water-immiscible products | 13 |
| 9.2.4 Filterable products | 13 |
| 9.3 Incubation of the inoculated enrichment broth | 14 |
| 9.4 Detection and identification of <i>Candida albicans</i> | 14 |
| 9.4.1 Isolation | 14 |
| 9.4.2 Identification of <i>Candida albicans</i> | 14 |
| 10 Expression of the results (detection of <i>Candida albicans</i>) | 15 |
| 11 Neutralization of the antimicrobial properties of the product | 15 |
| 11.1 General | 15 |
| 11.2 Preparation of inoculum | 15 |
| 11.3 Suitability of the detection method | 15 |
| 11.3.1 Procedure | 15 |
| 11.3.2 Interpretation of suitability test results | 16 |
| 12 Test report | 16 |
| Annex A (informative) Other media | 17 |
| Annex B (informative) Neutralizers of antimicrobial activity of preservatives and rinsing liquids | 22 |
| Bibliography | 23 |