

DIN EN 1650:2019-10 (E)

Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas - Test method and requirements (phase 2, step 1)

Contents	Page
European foreword	4
Introduction	5
1 Scope	6
2 Normative references	7
3 Terms and definitions	7
4 Requirements	7
5 Test method	9
5.1 Principle	9
5.2 Materials and reagents	10
5.2.1 Test organisms	10
5.2.2 Culture media and reagents	10
5.3 Apparatus and glassware	13
5.4 Preparation of test organism suspensions and product test solutions	14
5.4.1 Test organism suspensions (test and validation suspension)	14
5.4.2 Product test solutions	18
5.5 Procedure for assessing the fungicidal or yeasticidal activity of the product	19
5.5.1 General	19
5.5.2 Dilution-neutralization method	20
5.5.3 Membrane filtration method	22
5.6 Experimental data and calculation	24
5.6.1 Explanation of terms and abbreviations	24
5.6.2 Calculation	25
5.7 Verification of methodology	28
5.7.1 General	28
5.7.2 Control of weighted mean counts	28
5.7.3 Basic limits	28
5.7.4 Microscopic observation	28
5.8 Expression of results and precision	29
5.8.1 Reduction	29
5.8.2 Control of active and non-active product test solution (5.4.2)	29
5.8.3 Limiting test organism and fungicidal/yeasticidal concentration	29
5.8.4 Precision, replicates	29
5.9 Interpretation of results - conclusion	30
5.9.1 General	30
5.9.2 Fungicidal activity for general purposes	30
5.9.3 Yeasticidal activity for general purposes	30
5.9.4 Yeasticidal activity for hand hygiene	30
5.10 Test report	30
Annex A (informative) Referenced strains in national collections	32

Annex B (informative) Examples of neutralizers of the residual antimicrobial activity of chemical disinfectants and antiseptics and rinsing liquids	33
Annex C (informative) Graphical representations of dilution-neutralization method and membrane filtration method	35
DIN EN 1650:2019-10 EN 1650:2019 (E) Annex D (informative) Example of a typical test report	39
Annex E (informative) Precision of the test result	44
Bibliography	47