

DIN EN 1499:2017-10 (E)

Chemical disinfectants and antiseptics - Hygienic handwash - Test method and requirements (phase 2/step 2)

Contents

Page

Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Requirements	4
5 Test methods	5
5.1 Principle	5
5.2 Materials and reagents	5
5.2.1 Test organisms	5
5.2.2 Culture media and reagents	5
5.3 Apparatus and glassware	7
5.3.1 General	7
5.3.2 Usual microbiological laboratory equipment	7
5.4 Preparation of test organism suspensions and product test solutions	9
5.4.1 Test organism suspensions (test and validation suspension)	9
5.4.2 Product test solutions	10
5.5 Procedure for assessing the bactericidal activity of the product on volunteers' hands	11
5.5.1 General	11
5.5.2 Neutralization - control and validation	12
5.5.3 Test procedure with volunteers	13
5.5.4 Incubation and counting of the test mixture and the control and validation mixtures	15
5.6 Experimental data and calculation	15
5.6.1 Explanation of terms and abbreviations	15
5.6.2 Calculation	15
5.7 Verification of the methodology - Test validation	18
5.7.1 Acceptance criteria for test results	18
5.7.2 Control of weighted mean counts	19
5.7.3 Basic limits	19
5.8 Statistical evaluation (significance testing), expression of results and precision	19
5.9 Conclusion	19
5.10 Test report	19
Annex A (normative) Standard handwash procedure	22
Annex B (informative) Neutralizers and rinsing liquids	23
Annex C (informative) Graphical representation of neutralizer control and method validation	25
Annex D (informative) Quality control of soft soap	26
Annex E (informative) Examples of reporting of results and significance testing	27
Annex F (normative) WILCOXON'S matched-pairs signed-ranks test	31
Bibliography	32