

DIN EN 14675:2015-06 (E)

Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of virucidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (Phase 2, step 1)

Contents		Page
Foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Requirements	7
5	Test method	8
5.1	Principle	8
5.2	Materials and reagents	8
5.2.1	Test virus	8
5.2.2	Culture media and reagents	9
5.3	Apparatus and glassware	15
5.3.1	General	15
5.3.2	Usual microbiological laboratory equipment and, in particular, the following:	15
5.4	Product test solutions	16
5.5	Procedure for assessing the virucidal activity of the product	17
5.5.1	Experimental conditions (obligatory and additional)	17
5.5.2	Preparation of the test virus suspension	17
5.5.3	Preparation of cell line	18
5.6	Infectivity assay	18
5.6.1	Predilution of viral suspension	18
5.6.2	Virus titration of cells in suspension on microtitre plates	18
5.6.3	Virus titration on monolayers of cells on microtiter plates	18
5.6.4	Plaque assay	18
5.7	Virucidal test - preparation	19
5.7.1	General	19
5.7.2	Test method	19
5.8	Control of efficiency for suppression of disinfectant activity	19
5.8.1	Dilution in ice-cold medium	19
5.8.2	Filtration technique	19
6	Calculation and expression of results	20
6.1	Protocol of the CPE result	20
6.2	Calculation of infectivity titre (TCID ₅₀)	20
6.3	Calculation of PFU	20
6.4	Verification of the methodology	20
6.5	Calculation of the virucidal activity of products	20
6.6	Expression of results	20
7	Conclusion	21
7.1	General	21
7.2	Test report	21

Annex A (informative) Referenced strains of national collections	23
Annex B (normative) Cytotoxicity, reference inactivation test, test virus titration and detoxification of test mixtures	24
B.1 Cytotoxicity caused by product solutions	24
B.2 Reference inactivation test	24
B.3 Titration of test virus suspension	25
B.4 Detoxification of test mixtures by molecular sieving	25
Annex C (informative) Calculation of the viral infectivity titre	28
C.1 Quantal tests - Example of TCID50 determination by the Spearman-Kärber method	28
C.2 Plaque test	28
Annex D (informative) Example of a typical test report	30
Annex E (informative) Presentation of test results of one active concentration	32
Bibliography	34