

DIN EN 12353:2021-11 (E)

Chemical disinfectants and antiseptics - Preservation of test organisms used for the determination of bactericidal (including Legionella), mycobactericidal, sporicidal, fungicidal and virucidal (including bacteriophages) activity

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Requirements	6
5	Methods	7
5.1	Principle	7
5.2	Test organisms, culture media and reagents	7
5.2.1	Test organisms	7
5.2.2	Culture media and reagents	7
5.2.3	Cell cultures	14
5.2.4	Host strains for dairy bacteriophages (Lactococcus lactis)	15
5.3	Apparatus and glassware	16
5.3.1	General	16
5.3.2	Usual microbiological laboratory equipment	16
5.4	Procedure for preservation of test organisms - General	17
5.4.1	Handling of freeze-dried / frozen test organisms from culture collections	17
5.4.2	Choice of incubation procedure, agar medium, cell culture/cell line	17
5.5	Procedure for preservation of bacteria (incl. Legionella, aerobic spore-forming bacteria, excl. mycobacteria and bacterial spores) and yeasts	18
5.5.1	Reconstitution of the freeze-dried test organisms	18
5.5.2	Preparation for storage	18
5.5.3	Preparation of stock culture / working cultures	19
5.6	Procedure for preservation of mycobacteria	19
5.6.1	Reconstitution of the freeze-dried test organisms	19
5.6.2	Preparation for storage	19
5.6.3	Preparation of working cultures	20
5.7	Procedure for preservation of moulds (e.g. Aspergillus brasiliensis)	20
5.7.1	Reconstitution of the freeze-dried test organism	20
5.7.2	Preparation for storage	20
5.7.3	Preparation of stock culture / working cultures	21
5.8	Procedure for preservation of viruses (except dairy bacteriophages)	21
5.8.1	Reconstitution of frozen virus	21
5.8.2	Preparation for storage of stock virus suspension	21
5.8.3	Preparation of test virus suspension	21
5.9	Procedure for preservation of bacteriophages	22
5.9.1	Reconstitution of frozen bacteriophages	22
5.9.2	Preparation for storage	22
5.9.3	Preparation of bacteriophages working suspensions	22
5.10	Verification of the purity and identity of test organisms	22
5.10.1	General	22
5.10.2	Information on source of strains	23

5.10.3	Purity	23
5.10.4	Identity	23
5.11	Documentation	23
5.11.1	General	23
5.11.2	Freeze-dried test organism / frozen viruses	23
5.11.3	Cryovials of frozen test organism	23
5.11.4	Stock culture	24
5.11.5	Verification of purity and identity	24
5.11.6	Storage of documentation	24
Annex A (informative) Test organisms - Culture collection references and relation to CEN/TC 216 standards		25
Annex B (informative) Graphical representations		29
Bibliography		34