ISO 18184:2014-09 (E)

Textiles - Determination of antiviral activity of textile products

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 2

5 Virus and host cell 3

6 Warning 3

7 Apparatus 3

8 Sterilization of apparatus 6

9 Reagent and medium 6

10 Preparation 11
10.1 Restoration of host cell from cryopreservation 11
10.2 Subculture of host cell 11
10.3 Cell culture for the infectious virus titre assay 12
10.4 Preparation for test virus 12
10.5 Preparation for test specimen 15
10.6 Control test 16

11 Test procedure 16
11.1 Preparation of specimen 16
11.2 Inoculation of virus to the specimens 16
11.3 Contacting time 17
11.4 Wash-out of virus immediately after inoculation 17
11.5 Wash-out of virus after contacting time 17

12 Preparation of the series of the dilution for the virus suspension 17

13 Infective titre measurement 18
13.1 Plaque assay 18
13.2 TCID50 method 18

14 Calculation of infectivity titre 18
14.1 Plaque assay 18
14.2 TCID50 method 18
14.3 Test result 20

15 Test report 21

Annex A (normative) Virus strains and host cells 22

Annex B (normative) Infectivity titre test: Plaque assay 23

Annex C (normative) Infectivity titre test: TCID50 method 26

Annex D (normative) Composition of Media 27

Annex E (informative) Additional virus: Polio virus 30

Annex F (informative) Testing method using SPF embryonated hen's eggs 31

Annex G (informative)Antiviralefficacy 36

Annex H (informative) Round robin test result (1) 37

Annex I (informative) Round robin test result (2) 39

Bibliography 42