



Test identification Reference: J001550

# ISO 18184:2019 Textiles- Determination of antiviral activity of textile products

Microbiological Solutions Limited (MSL) Gollinrod, Walmersley, Bury, BL9 5NB, UK

Angela Davies, CEO

Aeris Cleantec AG **Customer:** Contact name: Constantin Overlack Email: constantin@aeris.io

Address: Knonauerstrasse 54, 6330 Cham, Switzerland

PO/Quote number: Q002292 18/05/20 Report Date:

Issue Number: 1

Laboratory Manager

Peter Thistlethwaite **Technical Projects Manager** 



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Test information		Deviation	
Name of Product	TH22-27		
Batch Number & Expiry Date	N/S		
Date of Delivery	02/04/20		
Period of Analysis	08/05/2020-15/05/2020		
Manufacturer / Supplier	Aeris Cleantec AG		
Storage Conditions	Ambient		
Appearance of the Product	White material		
Test Concentrations	As supplied		
Test Temperature	20°C <u>+</u> 1°C		
Temperature of Incubation	37°C ±1°C		
Identification of the Viral Strains:	Feline coronavirus, Strain Munich		
Contact Times	2 hours		

# **Test Result Summary**

The test product received a log reduction of 1.22 (93.99%) when tested under the conditions stipulated in this report.					

The test results on this report refer only to the items tested as supplied by the customer. This report shall not be reproduced except in full and with written approval of Microbiological Solutions Ltd. All reports are archived for a minimum of 2 years.

The sample will be retained for 1 month unless otherwise requested in writing.



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### Scope

This standard outlines the test method for the determination of the antiviral activity of the textile products against specified viruses.

#### Method

A 20mmx20mm sample of test material is cut (overall mass should be 0.40g and can be made up with extra material if required). 9 control pieces are required and 6 test pieces.

3 pieces of each material are used to test the effect of the fabric on cells without virus (cytotoxicity), 3 control pieces are used to recover the starting titre of virus. The remaining pieces ate inoculated with 200 $\mu$ l of virus at a concentration of ~10<sup>7</sup> TCID<sup>50</sup> (giving a final concentration of 10<sup>5</sup>) and left for the contact time.

Following the contact time, the fabric is recovered in 20ml of cell culture media and enumerated onto an appropriate cell line. TCID50 is calculated following the appropriate incubation time. Antiviral activity is calculated by comparison of the antiviral test material to the immediate recover from the control fabric.



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# **Test Results**

0 hours					
Sample	Average				
Control 1	5.58				
Control 2	5.54				
Control 3	5.67	5.60			

Controls				
Initial inoculum	7.54	Valid		
Cytotoxicity Test	4.17	Valid		
Cytotoxicity Control	4.13	Valid		

Contact time:2 hour						
Sample	Log recovery	Average	Reduction	Percentage		
Control 1	5.00					
Control 2	4.96					
Control 3	4.71	4.89	0.71	80.38%		
Test 1	4.46					
Test 2	4.46					
Test 3	4.21	4.37	1.22	93.99%		

Tel: 0844 824 6003 Email: info@mls.io Web: www.msl.io Company number: 4218514