



Microbe Investigations AG

LS20-04051

Report date: January 20, 2021

Customer: Print Idee SRL

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Microbe Investigations AG (MIS) is a spin-off company of ETH Zürich

MIS provides microbiological testing services primarily for industrial customers assessing the characteristics of developmental products. MIS also provides a depth of expertise in fundamental aspects of microbiology gained throughout many years of world-leading research. Target customers are primarily companies working with antimicrobial treatments on textiles, plastics, and coatings.

More information: www.microbe-investigations.com



Test report overview

General Info	Name	Contact	Key Account Manager
Customer	Print Idee SRL	A. Anca	P. Middleton
Distributor	-	-	-
Brand owner	-	-	-
Brand label	-	Application at	n/a
Reason for testing	Quality control	Application by	Padding (dry-in-wet)
Effects	HeiQ Viroblock	Scale	0 - unspecified

Test methods carried out in this report

Effect / Property	Testing standard	Test parameter
Domestic laundering	ISO 6330:2013	6N: 60°C, normal setting (cotton)
Quantitative antiviral test on textiles	ISO 18184:2019	Betacoronavirus 1, strain OC43 (ATCC VR-1558)

Test results: Good effect level

Test summary / comments:

- In the test ISO 18184, the "100% Cotton 12K1385-14" sample showed good antiviral activity against **Beta Coronavirus (Strain: OC43)**, initially and after 30 home launderings.

Samples, finishing process and textile information

Sample	Sample description
1	12K1385-12 100% Cotton Poplin

Recipe	Sample number
Product	1
Viroblock NPJ03 [%]	10
Parameters	1
Pick-up [%]	-
Drying Temp. [°C]	-
Drying Time [s]	-
Curing Air Temp. [°C]	-
Curing Time [s]	-
Substrates	1
Cotton [%]	100
Textile information	1
Weight [g/m ²]	-
Construction	WOV
Structure	PLW

Legend:

Construction process	Textile structure
WOV = Woven	PLW = Plain weave or similar

Antiviral Testing

Recipe	Sample number	
Product	1	
Viroblock NPJ03 [%]	10	
ISO 6330 parameters	1-1	1-2
ISO 6330 6N		30
Drying conditions		A

ISO 18184: Betacoronavirus 1 (ATCC VR-1558)

Sub-Samples	1-1	1-2
Ig(Va) (control, immediately) Betacoronavirus 1	6.76	6.76
Ig(Vc) (sample, after 2 hours) Betacoronavirus 1	3.40	3.50
Antiviral activity Value Mv Betacoronavirus 1	3.40	3.30
Percent reduction Betacoronavirus 1 [%]	99.956	99.945
Activity Betacoronavirus 1	Pass	Pass