



Microbe Investigations AG

LS21-00239

Report date: January 19, 2021

Customer: HeiQ Materials AG

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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	HeiQ Materials AG	M. Meyer	C. Centonze
Distributor	-	-	-
Brand owner	-	-	-
Brand label	-	Application at	Client
Reason for testing	Quality validation	Application by	Padding (dry-in-wet)
Effects	HeiQ Viroblock	Scale	2 - lab scale-up

Test methods carried out in this report

Effect / Property	Testing standard	Test parameter
Quantitative antiviral test on textiles	ISO 18184:2019	SARS-CoV-2 USA-WA1/2020 (EPI_ISL_404895)

Test results: Good effect level

Test summary / comments:

- In the test ISO 18184, the "Black Knit Polyester" sample showed good antiviral activity against **SARS-CoV-2** (Strain: USA-WA1/2020).

Samples, finishing process and textile information

Sample	Sample description
1	Black Knit Polyester fabric

Recipe	Sample number
Product	1
Viroblock NPJ03 [%]	10
Parameters	1
Pick-up [%]	76
Drying Temp. [°C]	120
Drying Time [s]	120.0
Curing Air Temp. [°C]	-
Curing Time [s]	3
Substrates	1
Polyester [%]	
Textile information	1
Weight [g/m2]	-
Construction	FKN
Structure	DOK

Legend:

Construction process	Textile structure
FKN = Flat Knit	DOK = Double knit

Antiviral Testing

Recipe	Sample number
Product	1
Viroblock NPJ03 [%]	10

ISO 18184: SARS-CoV-2

Sub-Samples	1-1
Virus strain	SARS-CoV-2 USA-WA1/2020 (EPI_ISL_404895)
Ig(Va) (control, immediately) SARS-CoV-2	5.04
Ig(Vc) (sample, after 2 hours) SARS-CoV-2	2.94
Antiviral activity Value Mv SARS-CoV-2	2.10
Percent reduction SARS-CoV-2 [%]	99.206
Activity SARS-CoV-2	Pass