

Microbe Investigations AG

LS21-00228

Report date: April 20, 2021

Customer: ICM Factory

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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	ICM Factory	C. Nguyen	C. Centonze
Distributor	-	-	-
Brand owner	-	-	-
Brand label	-	Application at	Client
Reason for testing	Quality control	Application by	Not specified
Effects	HeiQ Viroblock	Scale	4 - production

Test methods carried out in this report

Effect / Property	Testing standard	Test parameter
Quantitative antiviral test on textiles	ISO 18184:2019	Human coronavirus 229E (ATCC VR-740)

Test results: Good effect level

Test summary / comments:

- In the test ISO 18184, all the 3 samples showed good antiviral activity against **Human coronavirus 229E**.

Samples, finishing process and textile information

Sample	Sample description
1	Drytec Fabric 1
3	Drytec Fabric 2
4	PE Spandex

Recipe	Sample number		
Substrates	1	3	4
Polyester [%]	100	100	95
Elastane (Polyurethane) [%]			5
Textile information	1	3	4
Weight [g/m2]	-	140.0	175.0
Construction	WOV	WOV	FKN
Structure	PLW	PLW	PLW

Legend:

<i>Construction process</i>	<i>Textile structure</i>
WOV = Woven FKN = Flat Knit	PLW = Plain weave or similar

Antiviral Testing

Recipe	Sample number		
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ISO 18184: Human coronavirus 229E (ATCC VR-740)

Sub-Samples	1-2	3-1	4-1
Infective titer test	TCID50 method	TCID50 method	TCID50 method
Ig(Va) (control, immediately) Human coronavirus 229E	4.58	4.58	4.58
Contacting time Human coronavirus 229E [min]	120	120	120
Ig(Vc) (sample, after contacting) Human coronavirus 229E	2.50	2.50	2.50
Antiviral activity value Mv Human coronavirus 229E	2.10	2.10	2.10
Percent reduction Human coronavirus 229E [%]	99.175	99.175	99.175
Activity Human coronavirus 229E	+	+	+