

Microbe Investigations AG

LS20-02090

Report date: August 07, 2020

Customer:



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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	HeiQ KAM
Customer			M. Raibin
Distributor	-	-	-
Brand owner	-	-	-
Brand label	-	Application at	Client
Reason for testing	Quality validation	Application by	Padding (dry-in-wet)
HeiQ Effects	HeiQ Viroblock	Scale	3 - bulk trial

Test methods carried out in this report

Effect / Property	Testing standard	Test parameter
Domestic laundering	ISO 6330:2013	4G: 40°C, gentle setting (wool silk synthetics)
		Qualitative (pass/fail) pretest for Viroblock
Quantitative antibacterial test (hydrophilic fabrics)	ISO 20743:2013	Bacterium: Staphylococcus aureus (ATCC 6538P)

Test results: Excellent - Perfect application // no adjustment on recipe or application needed

Test summary / comments:

Sheeting fabric treated with HeiQ Viroblock NPJ03 shows very good antimicrobial activity beyond 50 x 40 °C washes.

Samples, finishing process and textile information

Sample	Sample description
1	Sheeting, bedlinen; NPJ03 335 g/l

Recipe	Sample number
Product	1
Viroblock NPJ03 (17200) [g/l]	335
Parameters	1
Pick-up [%]	65
Drying Temp. [°C]	140
Drying Time [s]	-
Curing Air Temp. [°C]	-
Curing Time [s]	-
Substrates	1
Not specified [%]	
Textile information	1
Weight [g/m ²]	-
Construction	WOV
Structure	-

Legend:

Construction process	Textile structure
WOV = Woven	

Antimicrobial Testing

Recipe	Sample number		
Product	1		
Viroblock NPJ03 (17200) [g/l]	335		
ISO 6330 parameters	1-1	1-2	1-3
Wash cycles 4G	0	20	50
Drying conditions		A	A

HeiQ Viroblock Coloration Test

Sub-Samples	1-1
Pass / Fail	Pass

ISO 20743: Staphylococcus aureus (ATCC 6538P)

Control	Intial	After 18 h	
Log cfu	4.3	7.0	
Sub-Samples	1-1	1-2	1-3
Log cfu Sample (staph)	2.1	2.1	3.5
Percent reduction Sample (staph) [%]	100.00	100.00	99.97
Log reduction Sample (staph)	4.9	4.9	3.5
Activity Sample (staph)	++	++	++

Test costs information (Pro-Forma invoice)

Item	Price per item	No item	Costs
LIMS license + reporting	250	1	250
ISO 20743: Staphylococcus aureus (ATCC 6538P)	150	3	450
ISO 6330 4G (delicate)	8	52	416

Total value of this report: USD 1116.-