

Microbe Investigations AG

LS20-01386

Report date: July 09, 2020

Customer: HeiQ Testing Services

Brand: 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.

Test report overview

General Info	Name	Contact	HeiQ KAM
Customer	HeiQ Testing Services	H. Sieber	C. Centonze
Distributor	-	-	-
Brand owner	HeiQ Materials AG	C. Centonze	-
Brand label	HeiQ Viroblock	Application at	Unknown
Reason for testing	Product testing	Application by	Not specified
HeiQ Effects	HeiQ Viroblock	Scale	0 - unspecified

Test methods carried out in this report

Effect / Property	Testing standard	Test parameter
Quantitative antibacterial test (hydrophilic fabrics)	ISO 20743:2013	Bacterium: Staphylococcus aureus (ATCC 6538P)
Quantitative antibacterial test (hydrophilic fabrics)	ISO 20743:2013	Bacterium: Klebsiella pneumoniae (ATCC 4352)

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

Test summary / comments:

Old mask (2013) Viroblock VB-DEV-7-FEB-2013-0 still shows excellent antimicrobial activity.

Samples, finishing process and textile information

Sample	Sample description
1	Old mask (2013) Viroblock VB-DEV-7-FEB-2013-0

Recipe	Sample number
Product	1
Viroblock NPJ03 (17200) [--]	--
Substrates	1
Not specified [%]	
Textile information	1
Weight [g/m ²]	-
Construction	-
Structure	FIA

Legend:

Construction process	Textile structure
	FIA = Final article

Antimicrobial Testing

Recipe	Sample number
Product	1
Viroblock NPJ03 (17200) [--]	--
ISO 6330 parameters	1-1
No. of domestic launderings	0
Drying conditions	

ISO 20743: Staphylococcus aureus (ATCC 6538P)

Control	Intial
Log cfu	4.3
Control	After 18 h
Log cfu	6.7
Sub-Samples	1-1
Log cfu Sample (staph)	2.0
Percent reduction Sample (staph) [%]	99.9980
Log reduction Sample (staph)	4.7
Activity Sample (staph)	++

ISO 20743: Klebsiella pneumoniae (ATCC 4352)

Control	Intial
Log cfu	-
Control	After 18 h
Log cfu	-
Sub-Samples	1-1
Log cfu Sample (klebs)	-
Percent reduction Sample (klebs) [%]	-
Log reduction Sample (klebs)	-
Activity Sample (klebs)	-

Old mask from 2013 to be tested for applied effect 7 years later.

Test costs information (Pro-Forma invoice)

Item	Price per item	No item	Costs
LIMS license + reporting	250	1	250
ISO 20743: Klebsiella pneumoniae (ATCC 4352)	200	1	200
ISO 20743: Staphylococcus aureus (ATCC 6538P)	150	1	150

Total value of this report: USD 600.-