



# Microbe Investigations AG

## LS21-03652

Report date: January 24, 2022

Customer: HeiQ RAS AG

Brand: DAW SE

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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](http://www.microbe-investigations.com)



## Test report overview

General Info	Name	Contact	Key Account Manager
Customer	HeiQ RAS AG	G. Schneider	-
Distributor	-	-	-
Brand owner	DAW SE	S. Overmeyer	-
Brand label	-	Application at	-
Reason for testing	Quality validation	Application by	Not specified
Effects	-	Scale	3 - bulk trial

### Test methods carried out in this report

Effect / Property	Testing standard	Test parameter
Quantitative antibacterial test on plastics	ISO 22196:2011	Bacterium: <i>Staphylococcus aureus</i> (ATCC 6538P)
Quantitative antibacterial test on plastics	ISO 22196:2011	Bacterium: <i>Escherichia coli</i> (ATCC 8739)

**Test results:** Very good effect level

#### Test summary / comments:

- In the test ISO 22196, the "Caparol PremiumCare 2K-Lack" samples showed excellent antibacterial activity at 24 hours contact time against *Staphylococcus aureus* and *Escherichia coli*.

## Samples, finishing process and textile information

Sample	Sample description
1	2 Caparol PremiumCare 2K-Lack

Recipe	Sample number
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Textile information	1
Weight [g/m <sup>2</sup> ]	-
Construction	-
Structure	-

Legend:

Construction process	Textile structure

## Microbiology: Antibacterial Activity

Recipe	Sample number
<b>ISO 22196: Staphylococcus aureus (ATCC 6538P)</b>	
Control	Initial
Log CFU	5.06
Contacting time [hours]	
Control	After contacting
Log CFU	7.25
Contacting time [hours]	
Control	Contacting time
Log CFU	
Contacting time [hours]	24
Sub-Samples	1-1
Log CFU Sample (staph)	2.00
Percent reduction Sample (staph) [%]	99.999
Log reduction Sample (staph)	5.30
Activity Sample (staph)	++
<b>ISO 22196: Escherichia coli (ATCC 8739)</b>	
Control	Initial
Log CFU	5.24
Contacting time [hours]	
Control	After contacting
Log CFU	7.29
Contacting time [hours]	
Control	Contacting time
Log CFU	
Contacting time [hours]	24
Sub-Samples	1-1
Log CFU Sample (ecoli)	2.00
Percent reduction Sample (ecoli) [%]	99.999
Log reduction Sample (ecoli)	5.30
Activity Sample (ecoli)	++