

BIOSAFE[®]

ANTI-VIRAL SOLUTION FOR A NEW NORMAL



kreateplus.com

CREATE & MAINTAIN A SAFE INDOOR ENVIRONMENT

With **BIOSAFE[®]** we created a solution
which helps us to live in safe and
comfortable surroundings





OUR SOLUTION

SIT BACK & RELAX

BIOSAFE[®] HELPS IN THE FIGHT AGAINST COVID-19

Disinfection of surfaces and objects touched by multiple people is an important part of the fight given against to Corona. Making contact with a surface or object that has the virus can transmit it to humans by touching the nose, eyes, or mouth.

BIOSAFE[®]; our cutting edge technology developed by our R&D engineers is a long-lasting anti-viral coating that provides an ongoing disinfection and kills at least 90% of CORONA FAMILY VIRUSES on fabric surfaces.





PERFORMANCE IN FULL CONFIDENCE

SUPERIOR PERFORMANCE

We developed our new **BIOSAFE**® technology that rebuild the trust for safety by killing at least 90% viruses and bacterias also by stopping the growth of fungi on our fabrics and creating additional long lasting protection that does not harm the human body and is safe for kids and animals.





SPECIFICATIONS

1
Kills at least %90
viruses and bac-
terias on contact

2
Durable & Long
lasting protection
(Tested after 10
times washing and 5
times dry cleaning)

3
Certified:
ISO 18184:2019 Tested
for feline corona virus

4
Applicable to
all our fabrics

5
Odorless

6
NON toxic,
NO heavy metals,
NON allergic,
NO silver ions,
NO phenolic yellowing

CHECK OUR TEST RESULTS

**For viruses the test product received
has shown a reduction of 1.03log (90,62%)
Contact times – 2 hours ± 10s**

The members of the family Coronaviridea are enveloped and have a positive sense RNA genome. Coronaviruses have a distinct morphology with an outer 'corona' of embedded envelope spikes. These viruses cause a broad spectrum of animal and human disease.

	Feline coronavirus	COVID-19 (SARS—CoV2)
Realm	Riboviria	Riboviria
Order	Nidovirales	Nidovirales
Family	Coronaviridae	Coronaviridae
Genus	Alphacoronavirus	Betacoronavirus
Species	Alphacoronavirus 1	COVID-19



Test identification Reference: J002848

ISO 18184:2019

ISO 18184:2019 Textiles- Determination of antiviral activity of textile products

Microbiological Solutions Limited (MSL)
Gollinrod, Walmersley, Bury, BL9 5NB, UK

Angela Davies, CEO

Customer: KETS TEKSTIL TURIZM TICARET A.S.
Contact name: Abdulkadir Yagiz
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PO/Quote number: Q004531/1
Report Date: 13/05/2021
Issue Number: 1Megan Barrett
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Company number: 4218514

Test identification Reference: J002848

ISO 18184:2019

Test information		Deviation
Name of Product	MEDA	
Batch Number & Expiry Date	Batch No 544102	
Date of Delivery	30/03/2021	
Period of Analysis	06/05/2021	
Manufacturer / Supplier	KETS TEKSTIL TURIZM TICARET A.S.	
Storage Conditions	Ambient	
Appearance of the Product	Test 1 – Grey fabric Test 2 – Gold fabric Test 3 – Pink fabric	
Neutralisation Method	Dilution	
Test Concentrations	As supplied	
Test Temperature	25°C ± 1°C	
Temperature of Incubation	37°C ± 1°C	
Identification of the Viral Strains:	Feline corona virus, Strain Munich	
Contact Times	2 hours ± 10s	

Test Result Summary

See results tables below for individual log and percentage reductions

The test results on this report refer only to the items tested as supplied by the customer. This report shall not be reproduced except in full and with written approval of Microbiological Solutions Ltd. All reports are archived for a minimum of 2 years.
The sample will be retained for 1 month unless otherwise requested in writing.

The members of the family Coronaviridae are enveloped and have a positive sense RNA genome. Coronaviruses have a distinct morphology with an outer 'corona' of embedded envelope spikes. These viruses cause a broad spectrum of animal and human disease.

	Human coronavirus 229E	Feline coronavirus	COVID-19 (SARS—CoV2)
Realm	Riboviria	Riboviria	Riboviria
Order	Nidovirales	Nidovirales	Nidovirales
Family	Coronaviridae	Coronaviridae	Coronaviridae
Genus	Alphacoronavirus	Alphacoronavirus	Betacoronavirus
Species	Human coronavirus 229E	Alphacoronavirus 1	COVID-19

Andrew M.Q. King, Michael J. Adams, Eric B. Carstens, and Elliot J. Lefkowitz 'Virus Taxonomy, Classification and Nomenclature of Viruses, Ninth Report of the International Committee on Taxonomy of Viruses' 2012 ISBN 9780123846846



Test identification Reference: J002848

ISO 18184:2019

Scope

This standard outlines the test method for the determination of the antiviral activity of the textile products against specified viruses.

Method

A 20mmx20mm sample of test material is cut (overall mass should be 0.40g and can be made up with extra material if required). 9 control pieces are required and 6 test pieces.

3 pieces of each material are used to test the effect of the fabric on cells without virus (cytotoxicity), 3 control pieces are used to recover the starting titre of virus. The remaining pieces are inoculated with 200µl of virus at a concentration of $\sim 10^7$ TCID₅₀ (giving a final concentration of 10^5) and left for the contact time.

Following the contact time, the fabric is recovered in 20ml of cell culture media and enumerated onto an appropriate cell line. TCID₅₀ is calculated following the appropriate incubation time. Antiviral activity is calculated by comparison of the antiviral test material to the immediate recover from the control fabric.

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Page 3 of 4



Test identification Reference: J002848

ISO 18184:20

Test Results

0 hours		
Sample	Log recovery	Average
Control 1	6.63	6.32
Control 2	6.04	
Control 3	6.29	

Test 1

Contact time:2 hour				
Sample	Log recovery	Average	Reduction	Percentage
Control 1	5.88	5.56	0.76	82.78%
Control 2	5.96			
Control 3	4.83			
Test 1	4.46	4.28	2.04	99.09%
Test 2	4.13			
Test 3	4.25			

*Control fabric must not show >1 log reduction

Controls		
Initial inoculum	8.13	Valid
Cytotoxicity Control	4.42	Valid
Cytotoxicity Test 1	4.08	Valid

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Page 4 of 4

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OEKO-TEX[®]
CONFIDENCE IN TEXTILES
STANDARD 100

