

COVID-19 Test Report

ISO 21702 approved that it can continuously kill >99.9% of Coronavirus disease 2019 (COVID-19) in the state of forming antibacterial coating.

Microbac Laboratories, Inc. Date: 07/09/21

Page 1 of 3

Unaudited Preliminary Results Project No. 1114-101:

Measurement of Antiviral Activity of a Treated Plastic Film Material upon Direct Contact - per ISO 21702 - Severe

Acute Respiratory Syndrome-Related Coronavirus 2 (SARS-CoV-2) (COVID-19 Virus)

THE TOTAL									
Contact time	Replicate	Titer (Log ₁₀ TCID ₅₀ /mL)	Volume (mL)	Viral Load (Log ₁₀ TCID ₅₀)					
N/A		7.30		-					
		no virus was detected, cells remained viable; media was sterile							
24 hours	1	4.55	10	5.55					
0 hours	1	4.80	10	5,80					
24 hours	1	4.05	10	5.05					
24 hours	1	< 0.83 *	10	< 1.83					
	N 24 hours 0 hours 24 hours	N/A 24 hours 1 0 hours 1 24 hours 1	Contact time Replicate (Log ₁₀ TcID ₅₀ /mL) 7.30 no virus was detected 1 4.55 0 hours 1 4.80 24 hours 1 4.05	Contact time Replicate (Log ₁₀ TCID ₅₀ /mL) Volume (mL) N/A 7.30 - - no virus was detected, cells remain was sterile 24 hours 1 4.55 10 0 hours 1 4.80 10 24 hours 1 4.05 10					

* No virus was detected; the theoretical titer was determined based on the Poisson method,
Note: The results are unaudited and preliminary. They are subject to change until the review is complete and a final report is issued

Microbac Laboratories, Inc. Date: 07/09/21

Page 3 of 3

Unaudited Preliminary Results Project No. 1114-101:

Measurement of Antiviral Activity of a Treated Plastic Film Material upon Direct Contact - per ISO
21702 - Severe Acute Respiratory Syndrome-Related Coronavirus 2 (SARS-CoV-2) (COVID-19 Virus)

Table 4 Viral Reduction - Control Fabric

Test Substance	Replicate	Contact Time	Initial Load (Log ₁₀ TCID ₅₀)*	Output Load (Log ₁₀ TCID ₅₀)	010	Percent Reduction
Plastic film with PrimeShield	1	24 hours	5.05	≤ 1.83	> 3.22	≥99.94

* Input load is derived from the control fabric at T_{kind}
≥ Denotes a complete inactivation of the virus challenged.

Note: The results are unaudited and preliminary. They are subject to change until the review is complete and a final report is issued

PrimeShield

10,000 times rubbing Test Report

ISO 22196:2011 shows that the treated surfaces still remains 99.999% E. coli efficacy after 10,000 times rubbing test

