




KR Biotech Co., Ltd.
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Test Report

Personnel	SUN HWA JOO	Tel. No.	82-2-555-0500
Client	Affiliation MALTANI Corp.	E-mail	shj26@maltani.co.kr
	Address Maltani B/D, Yeoksam-Ro, Kangnam-Gu, Seoul 06196, Korea		
Request	Virucidal Activity Test by LED Irradiation		
Product	CLEAN SERIES MODULE		
Purpose of Use on the Product	Sterilization		
Test Virus	COVID-19 (SARS-CoV-2)	Cell Line	Vero E6
Test No.	KR-2009-042-MTN01-C	Test Period	2020.09.04-09.11
Reaction Time	30 min, 60 min, 90 min	Titration	CPE
Test Temperature	Room Temperature (Approx. 20°C)	Tester	Hansam Cho 

Test Result

Product Name	Virus Titer TCID ₅₀	Distance	Treatment time	Virus Reduction Rate	
				(log)	(%)
CLEAN SERIES MODULE	6.81x10 ⁶	20 cm	30 min	2.42	99.62%
			60 min	≥4.42	≥99.99%
			90 min	≥4.00	≥99.99%

Result: As a result of the sterilization test for COVID-19 (SARS-CoV-2) by LED (405nm) generated in the CLEAN SERIES MODULE of MALTANI Corp., it showed more than 99.99% virucidal effect in 60 minutes treatment at a distance of 20cm.

September 17, 2020

Test Manager: Young Bong Kim (Seal)

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* This test report is a result limited to the sample and sample name provided by the client and does not guarantee the quality on the overall product.
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