

# Test Report



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Test Report Number : KUMC-MP-03

Initiation date : April 25, 2020

Client : CleanCU

Completion date : May 15, 2020

Representative for Client : 이경민

Address for Client : 경기도 김포시 고촌읍 테리로 179번길 85

CleanCu's 'K Copper Plus' film contains copper and has the ability to prevent infection by SARS-CoV-2, which causes COVID-19. Using CleanCU's K Copper Plus film in areas where COVID-19 is prevalent will help prevent the spread of the disease.

## ※ Verification of Virus inactivating Ability

Test Substance Name :

Evaluation of inactivation of COVID-19 virus treated by CleanCU 'K Copper Plus' film

Test Result				
Test	Inactivation rate	Test Time	Result	Test Method
Inactivation test against COVID-19 virus	Inactivation rate(%) as compared to control	30 min	14.0%	Plaque assay
		2hours	38.1%	
		4hours	21.4%	
		8hours	36.5%	
		24hours	97.2%	

### ※ Condition for test

- Virus titer :  $1 \times 10^5$  PFU
- Test time : 30 minute, 2 hours, 4 hours, 8 hours, 24 hours
- Test temperature :  $(20 \pm 2) ^\circ\text{C}$

### ※ Virus for test

- COVID-19 virus: SARS-CoV-2(nCoV-19/Korea/KUMC-01/2020)

### ※ Cell line for test

- Vero (Monkey kidney cell line)

Date of Issue : May 15, 2020

Reporter:

Principal Investigator

Department of Microbiology, Korea University College of Medicine

Testing Institution

Korea University College of Medicine, Research and Business Foundation

(Biosafety Center / Korea Centers for Disease Control

and Prevention approval number: KCDC-18-03-02)

(Signature)