



TESTING DATA REPORT

TEST REPORT



REPORT NO. : K287-20-00934
SAMPLE RECEIVED DATE : 2020-04-07
TEST STARTED DATE : 2020-04-07
REPORT ISSUED DATE : 2020-04-27
PAGE : 1 OF 4

DESCRIPTION : ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE FILM.

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ITEM : ANTIMICROBIAL COPPER FILM

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TEST CONDUCTED : AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

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FOR FITI

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※ Report Verification No.: 1VSS-I6FM-RH35 ※

(You can see the authenticity of your test report through the above "Report Verification No." at FITI homepage.)

01. ANTIMICROBIAL ACTIVITY AND EFFICACY (JIS Z 2801 : 2010, FILM-CONTACT METHOD)
: CFU/cm², ANTIBACTERIAL ACTIVITY : log

		BLANK	#1
BACTERIA-1	THE NUMBER OF BACTERIA AFTER INOCULATION	1.4 x 10 ⁴	1.4 x 10 ⁴
	THE NUMBER OF BACTERIA AFTER 24 h	2.4 x 10 ⁴	< 0.63
	ANTIBACTERIAL ACTIVITY(log)	-	4.5
	CONVERSION TO %	-	99.9
BACTERIA-2	THE NUMBER OF BACTERIA AFTER INOCULATION	1.4 x 10 ⁴	1.4 x 10 ⁴
	THE NUMBER OF BACTERIA AFTER 24 h	1.1 x 10 ⁶	< 0.63
	ANTIBACTERIAL ACTIVITY(log)	-	6.2
	CONVERSION TO %	-	99.9

NOTE) STANDARD FILM : STOMACHER® 400 POLY-BAG
 TEST CONDITION : THE SOLUTION ARE FIXED AT (35 ± 1) °C, 90 % R.H. FOR 24 h,
 AND DETERMINE BACTERIA CELL GROWTH INHIBITION RATE BY
 POUR AGAR PLATE METHOD.
 ANTIMICROBIAL EFFICACY : ANTIBACTERIAL ACTIVITY SHALL NOT BE LESS THAN 2.0
 TEST BACTERIA : BACTERIA-1 - *Staphylococcus aureus* ATCC 6538P
 BACTERIA-2 - *Escherichia coli* ATCC 8739
 CONVERSION TO % = (1 - 10^{-(log10 reduction)}) x 100
 AT THE REQUEST OF THE CLIENT, ANTIBACTERIAL ACTIVITY IS CONVERTED TO % REDUCTION.
 SEE ATTACHED PHOTOS.

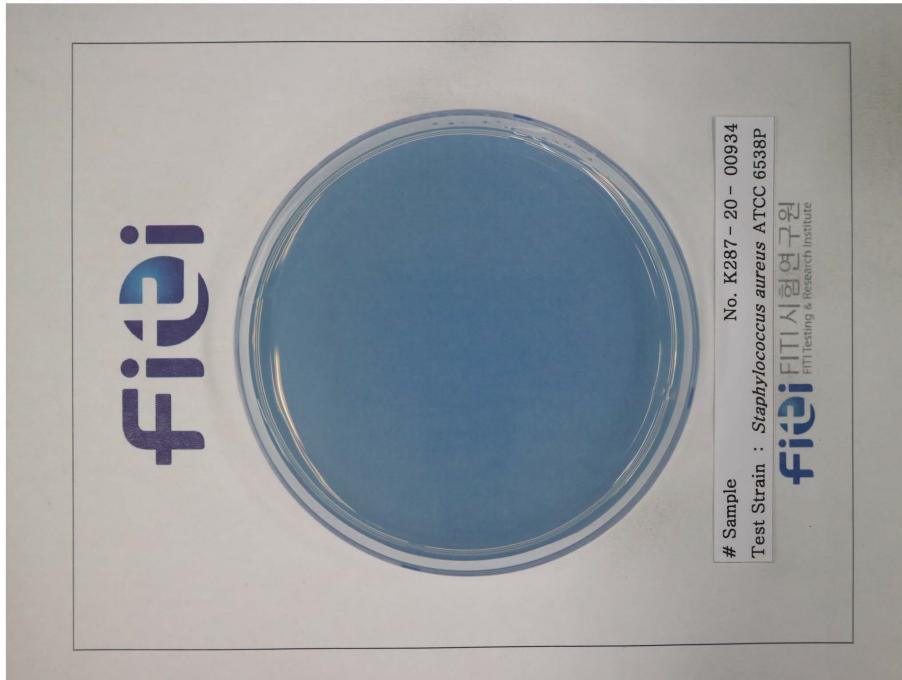
**** End of The Report ****



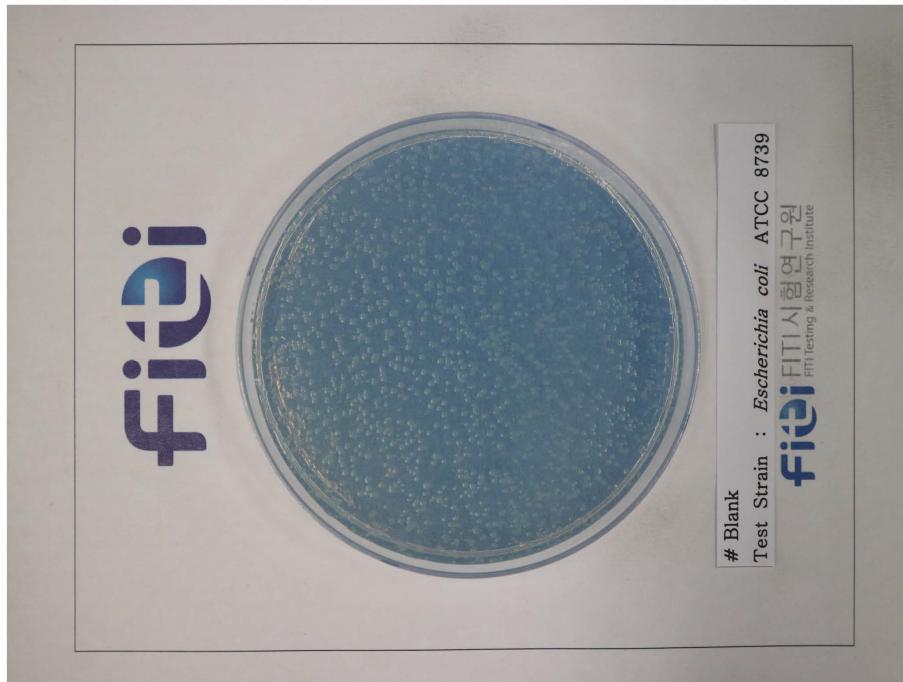
- ANTIMICROBIAL ACTIVITY AND EFFICACY PHOTO: BACTERIA 1 : BLANK -



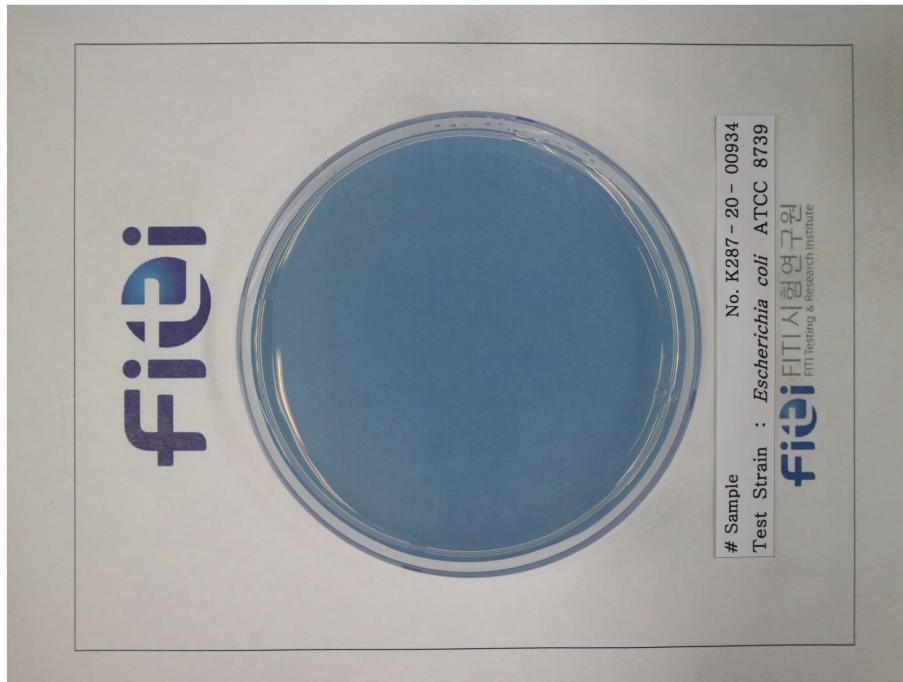
- ANTIMICROBIAL ACTIVITY AND EFFICACY PHOTO: BACTERIA 1 : #1 -



- ANTIMICROBIAL ACTIVITY AND EFFICACY PHOTO: BACTERIA 2 : BLANK -



- ANTIMICROBIAL ACTIVITY AND EFFICACY PHOTO: BACTERIA 2 : #1 -



Study of SARS-CoV-2 on various surfaces including Plastic, Stainless Steel and Copper

Summary

Copper is a natural antimicrobial that has been used for hundreds of years and is an effective preventative measure to stop the spread of microbes.

This study from the New England Journal of Medicine concluded that a copper surface reduced the number of microbes present faster than all other surfaces tested in the study including plastic and stainless steel. No SARS-CoV-2 was found on copper after just a few hours yet on stainless steel and plastic it was detected days later.

To understand more about how copper reduces the microbe bioburden on surfaces please click on the study link below:

<https://www.nejm.org/doi/pdf/10.1056/NEJMc2004973?articleTools=true>