



TEST REPORT

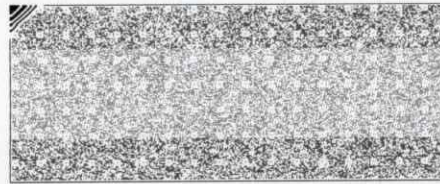
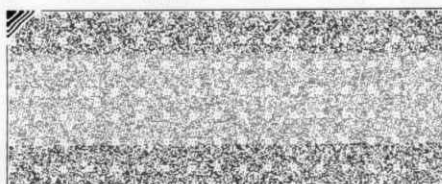
1. NO : CT20-040625E
2. Client
 - Name : CLEAN CU
 - Address : 85, Taeri-ro 179beon-gil, Gochon-eup, Gimpo-si, Gyeonggi-do, Republic of Korea
3. Date of Test : 2020.03.30 ~ 2020.04.28
4. Use of Report : Quality Control
5. Test Sample : Antibacterial Copper PE (film sheet_c.c)
6. Test Method
 - (1) KCL-FIR-1003:2018

Affirmation	Tested By Name : Lee, Jung Min <i>Jungmin.lee</i>	Technical Manager Name : BIN SUNG IL <i>B. Sungil</i>
This report is not accredited by KOLAS. Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified. The test results are not indicative of representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products. The results of using only a portion of this report cannot be guaranteed. The authenticity of this test report can be checked on KCL website(www.kcl.re.kr).		

2020.04.28

Korea Conformity Laboratories President Yoon, Kap Seok *Yoon. KapSeok*

Result Inquiry : unit108, Industry-Academic Cooperation Foundation, Hankyong National University, 327, Jungang-ro, Anseong-si, Gyeonggi-do, 17579, Korea (82-31-389-9186)



TEST REPORT

No : CT20-040625E

7. Test Results

Test Items		Test method	Test Results			Testing Environment
			Early Conc. (CFU/mL)	After 16h Conc (CFU/mL)	Reduction rate (%)	
Antibacterial test : <i>Klebsiella pneumoniae</i>	BLANK	KCL-FIR-1003 :2018	2.4×10^5	6.4×10^6	-	(37.0 ± 0.2) °C
	Antibacterial Copper PE (film sheet_c.c)		2.4×10^5	< 10	99.9	
Antibacterial test : MRSA	BLANK		2.0×10^5	6.1×10^6	-	
	Antibacterial Copper PE (film sheet_c.c)		2.0×10^5	< 10	99.9	

※ CFU : Colony Forming Unit

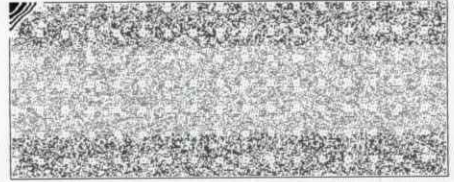
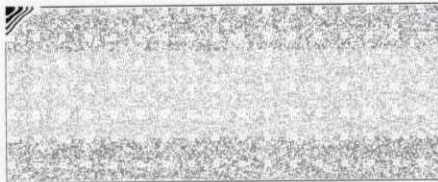
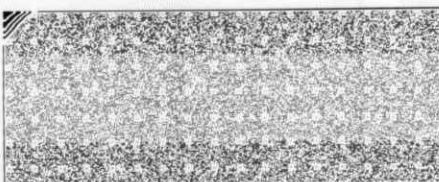
※ Inoculum concentration(CFU/mL) : *Klebsiella pneumoniae* : 2.4×10^5
MRSA : 2.0×10^5

※ Test strain : *Klebsiella pneumoniae* ATCC 4352
MRSA(*Staphylococcus aureus subsp. aureus*) ATCC 33591

※ Reaction time : 16 h

※ Sample : 5 cm × 5 cm, Blank : Stomacher film : 5 cm × 5 cm

※ Location : unit108, Industry-Academic Cooperation Foundation, Hankyong National University,
327, Jungang-ro, Anseong-si, Gyeonggi-do, 17579, Korea



TEST REPORT

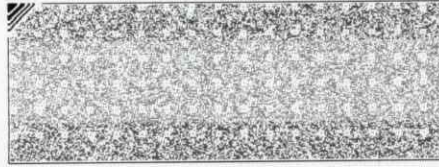
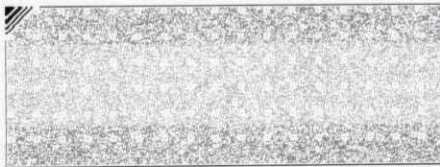
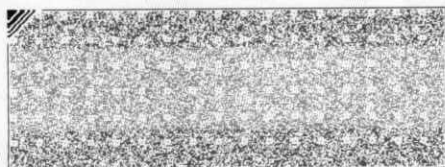
No : CT20-040625E



<Picture 1. *Klebsiella pneumoniae* - BLANK (16 h)>



<Picture 2. *Klebsiella pneumoniae* - Antibacterial Copper PE (film sheet_c.c) (16 h)>



TEST REPORT

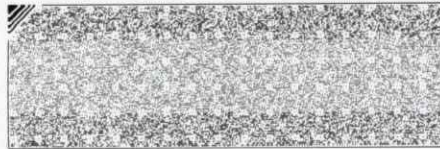
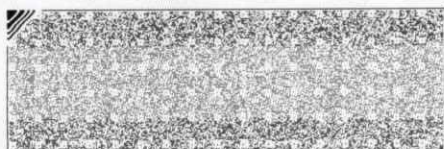
No : CT20-040625E



<Picture 3. MRSA - BLANK (16 h)>



<Picture 4. MRSA - Antibacterial Copper PE (film sheet_c.c) (16 h)>



TEST REPORT

No : CT20-040625E



<Picture 5. Sample - Antibacterial Copper PE (film sheet_c.c)>

----- End of Report -----

