

Test Report No. F690101/LF-CTSAYAR20-01339E

Issued Date : 2020. 05. 29

Sample No.

Item / Part No.

: AYAR20-01339E.001

Sample Description

- Anti bacteria Cu PET Film
- :

Material

: N/A : N/A

:

Antimicrobial Activity (JIS Z 2801:2010E)

Test microorganisms	Result(s)							
	Initial bacteria number (CFU/film)	Bacteria number after 24 hr at 35 °C			Antimicrobial activity			
		Control (CFU/film)	Sample (CFU/film)		R	Percentage (%)		
Escherichia coli	richia coli 2.2 x 10 ⁵ 1	1.5 x 10 ⁸	1st	<25	6.8	>99.9%		
			2nd	<25	6.8	>99.9%		
A100 0139			3rd	<25	6.8	>99.9%		
Staphylococcus aureus ATCC 6538	2.1 x 10 ⁵	1.0 x 10 ⁶	1st	<25	4.6	>99.9%		
			2nd	<25	4.6	>99.9%		
			3rd	<25	4.6	>99.9%		

<Remark>

- 1) Sample material: Plastic film
- 2) Incoulum Concentration:
Escherichia coli: 2.2 x 105 CFU/filmStaphylococcus aureus: 2.1 x 105 CFU/film
- 3) Method: JIS Z-2801 methods Pour plate method
- 4) Dilution medium: 1/500 Nutrient broth (BD)

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Test Report No. F690101/LF-CTSAYAR20-01071

Issued Date : 2020. 04. 16

:	AYAR20-01071.001
:	SAT13B
:	N/A
:	N/A
	:

Antimicrobial Activity (ISO 22196)

Test microorganisms	Result(s)							
	Initial bacteria number (CFU/film)	Bacteria number after 24 hr at 35 $^\circ \!$			Antimicrobial activity			
		Control (CFU/film)	Sample (CFU/film)		R	Percentage (%)		
Klebsiella pneumoniae ATCC 4352	2.1 x 10⁵	1.0 x 10 ⁸	1 st	4.8 x 10 ⁵	2.3	99.5%		
			2 nd	3.4 x 10⁵	2.5	99.7%		
			3 rd	3.4 x 10⁵	2.5	99.7%		

<Remark>

1) Sample material: Plastic

2) Incoulum Concentration:

Klebsiella pneumoniae : 2.1 × 105 CFU/film

3) Method: ISO 22196 methods

4) Dilution medium: 1/500 Nutrient broth (BD)

5) The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

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