

Test Report No. F690101/LF-CTSAYFN20-11734E Issued Date : 2020. 04. 17 Page 1 of 6

IDEA BRIDGE CO.,LTD

R/M B221, Business centre, 470 Yangcheon R/D, Gangseo-gu, Seoul, Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No. : AYFN20-11734E

Sample Description : ANTI-MICROBIAL MOBILE PROTECTION FILM

Item no./Lot No. : -

SGS Ref No. : AYHA20-03816

Test Period : 2020. 04. 07 to 2020. 04. 17

Purpose of Test Report : Data for reference

Client Reference Data : HS4B, HS6B, HS9B, FX9B / HG3B, HG4B /

TS4B, TS6B, TS9B, TG4B / TB200, TB130

Test Results : For further details, please refer to following page (s)

Report Comments : The results shown in this test report refer only to the sample(s) tested unless

otherwise stated.

This test report is not related to Korea Laboratory Accreditation and KS Q ISO/IEC

17025.

Verify for authenticity and validity in web site: https://twap.sgs.com/sgsrsts_cloud

Ye fee

Technical Manager / SGS KOREA



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Results:

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 (%)
Klebsiella pneumoniae ATCC 4352	2.2 x 10 ⁵	1.1 x 10 ⁸	1st	<25	6.7	>99.9%
			2nd	<25	6.7	>99.9%
			3rd	<25	6.7	>99.9%
Staphylococcus aureus ATCC 6538P	1.6 x 10 ⁵	3.8 x 10 ⁷	1st	<25	6.2	>99.9%
			2nd	<25	6.2	>99.9%
			3rd	<25	6.2	>99.9%
Salmonella typhimurium NCTC12023	2.3 x 10 ⁵	1.5 x 10 ⁸	1st	<25	6.8	>99.9%
			2nd	<25	6.8	>99.9%
			3rd	<25	6.8	>99.9%

<Remark>

Sample meterial: HYBRID ANTI-SCRATCH FILM

2) Inoculum Concentration:

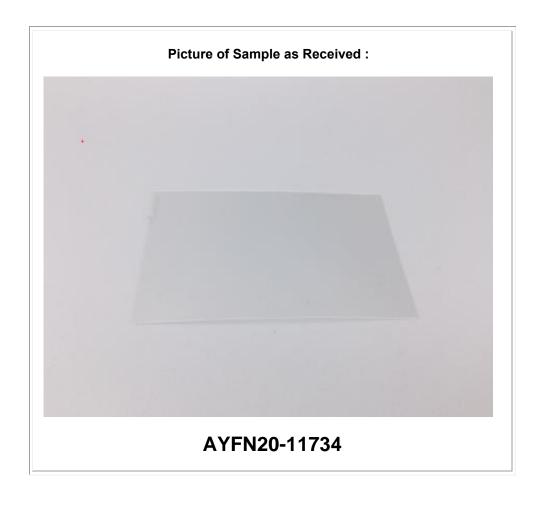
Klebsiella pneumoniae : 2.2 × 10⁵ CFU/film Staphylococcus aureus : 1.6 × 10⁵ CFU/film Salmonella typhimurium : 2.3 × 10⁵ CFU/film 3) Method: JIS Z-2801 methods- Pour plate method 4) Dilution Medium : 1/500 Nutrient broth (BD)



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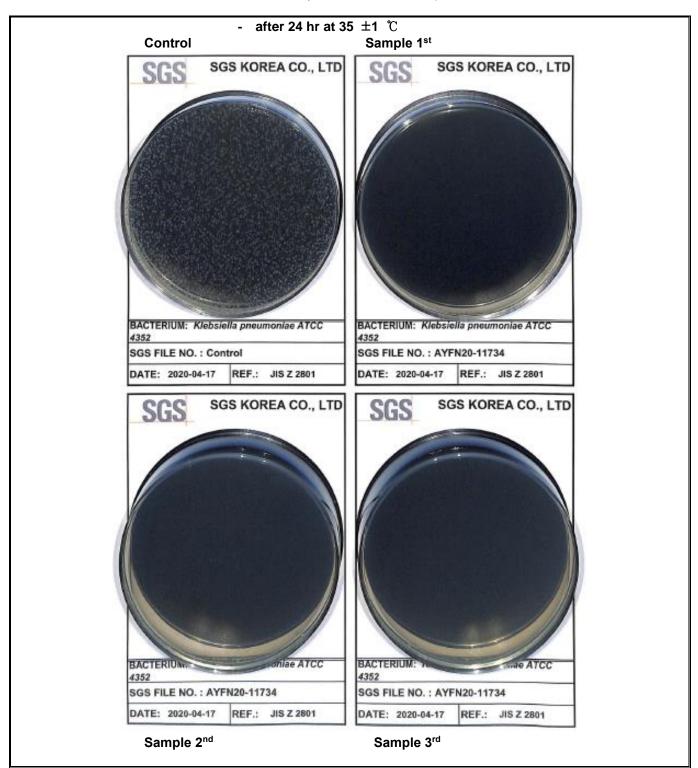
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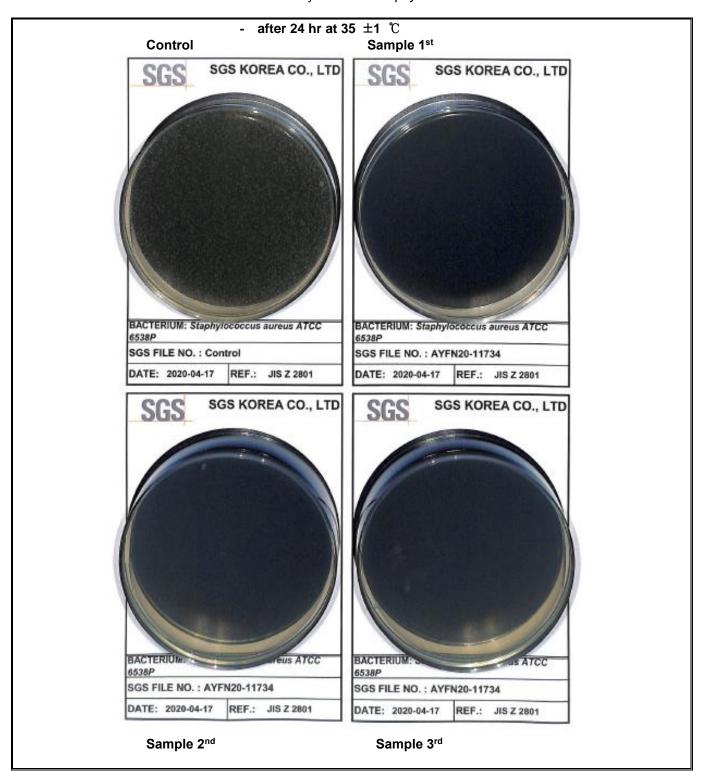
- Antimicrobial Activity of Photo: Klebsiella pneumoniae -





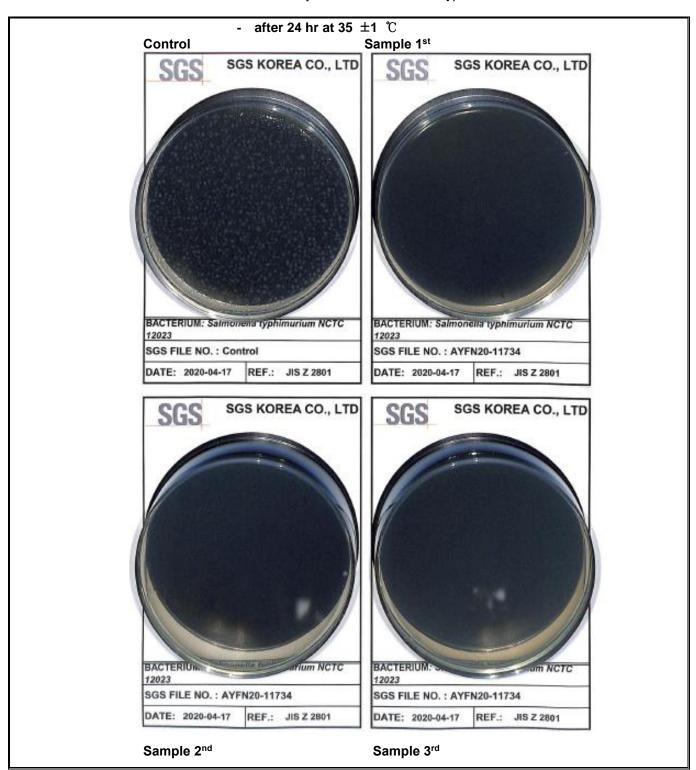
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- Antimicrobial Activity of Photo: Staphylococcus aureus -





- Antimicrobial Activity of Photo: Salmonella typhimurium-



*** End of Report ***