

Test Report No. F690101/LF-CTSAYHA13-01629 Issued Date: March 28, 2013 Page 1 of 4

To: I&S

136-1,Hojuk-Ri, Oksanmyeon, Cheongwongun, Chungbuk, Korea

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

SGS File No. : AYHA13-01629

Sample Description : Dwinguler Kid's PlayMat(环保康乐儿童垫)-A

Style / Item No. :
Material :
Color :
Order No. :
Buyer :
Supplier :
Country of Origin : -

Sample Receiving Date : MAR. 19, 2013

Testing Period : MAR. 20, 2013 to MAR. 28, 2013

Test Performed : SGS Korea tested the sample which was selected by applicant with following

result.

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

Result Summary :

Test Requested	Conclusion
Antimicrobial Activity	See Results

SGS Korea Co., Ltd.

Country of Destination

Stephen Him

Stephen Min / Technical Manager



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Results:

Antimicrobial Activity (JIS Z 2801:2000E)								
Test microorganisms	Result(s)							
	Initial bacteria number (CFU/film)	Bacteria number after 24 hr at 37 °C		Antimicrobial activity				
		Control (CFU/film)	Sample (CFU/film)		R	Percentage (%)		
Escherichia coli ATCC 8739	3.6 x 10⁵	1.4 x 10 ⁷	1st	< 25	> 5.8	> 99.9		
			2nd	< 25	> 5.8	> 99.9		
			3rd	< 25	> 5.8	> 99.9		
Staphylococcus aureus ATCC 6538P	3.4 x 10⁵	3.4 x 10 ⁶	1st	< 25	> 5.1	> 99.9		
			2nd	< 25	> 5.1	> 99.9		
			3rd	< 25	> 5.1	> 99.9		

Description:

1. Mat

Note: 1) CFU: Colony forming unit

2) R: Antibacterial activity rate

3) Percentage: Antibacterial activity percentage



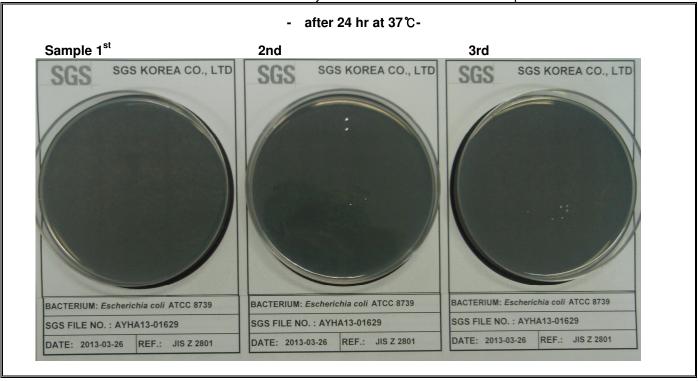
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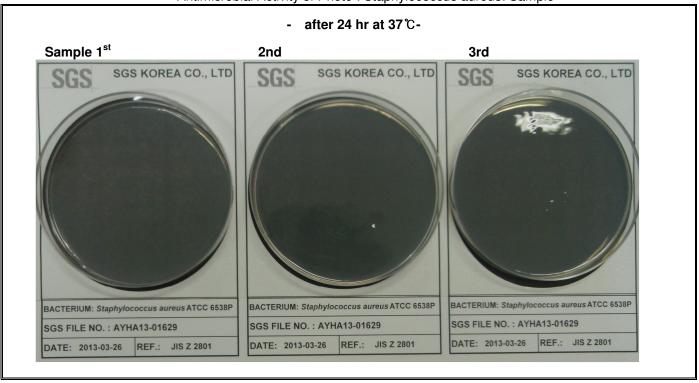


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- Antimicrobial Activity of Photo : Escherichia coli: Sample -



- Antimicrobial Activity of Photo : Staphylococcus aureus: Sample -

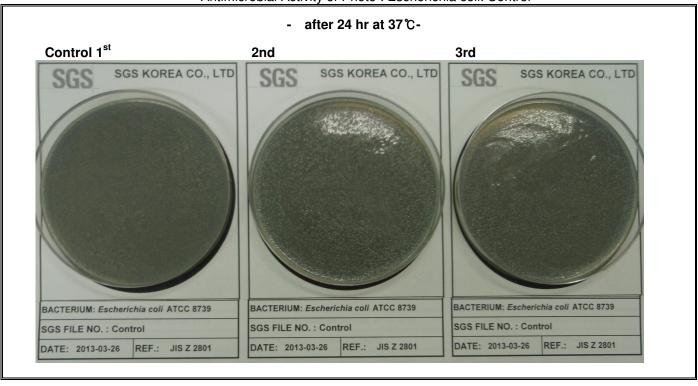


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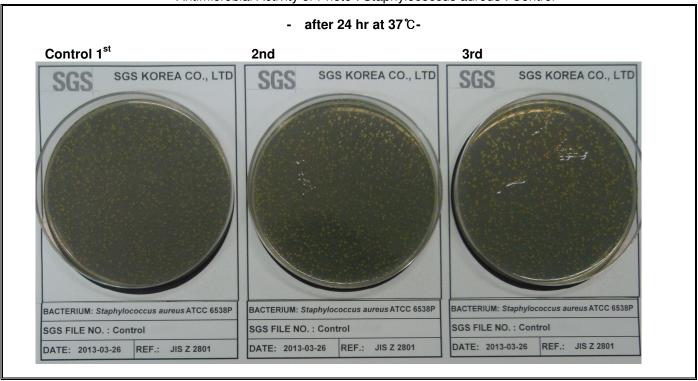


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- Antimicrobial Activity of Photo : Escherichia coli: Control -



- Antimicrobial Activity of Photo : Staphylococcus aureus : Control -



*** End of Report ***

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