

Test Report 4612627

Date : 1-Jun-2020

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Client : Wilsonart (Thailand) Co.,Ltd.
75/16 Moo 5, Soi Wat Sopanaram, Ekkachai Road
Amphur Muang, Samutsakorn 74000 Thailand

The following sample(s) was/were submitted and identified by client as:

Sample Name : Wilsonart High Pressure Laminate
Sample Description : High Pressure Laminate

The following sample(s) was/were identified by SGS as:

SGS Sample No. : 4781512
Sample Condition : Sample is contained in a plastic bag.
Quantity Submitted : 24 pcs

Date Received : 21-May-2020

Date Commenced : 22-May-2020

Signed for and on behalf of
SGS (Thailand) Limited



Jirapan Vilaipol
Microbiological Lab Manager

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TEST RESULTS

Test Required : Antibacterial activity and efficacy (Quantitative) - Staphylococcus aureus ATCC 6538P (and) - Escherichia coli ATCC 8739
 Test Method : Based on JIS Z 2801:2010

Tested microorganism	Concentration of bacteria (CFU/ml)	Initial inoculum concentration (CFU/piece of samples)	The number of bacteria recovered from control at 0 hr. contact time(CFU/piece of samples)	The number of bacteria recovered from control at 24 hrs. contact time(CFU/piece of samples)	The number of bacteria recovered from tested sample at 24 hrs. contact time(CFU/piece of samples)	Value of antimicrobial activity(R)	%Reduction
<i>Staphylococcus aureus</i> ATCC 6538P	490,000	200,000 (5.3 log)	240,000 (5.4 log)	390,000 (5.6 log)	Less than 10 (<1.0 log)	>4.6	>99.99
<i>Escherichia coli</i> ATCC 8739	640,000	260,000 (5.4 log)	240,000 (5.4 log)	11,000,000 (7.0 log)	Less than 10 (<1.0 log)	>6.0	>99.99

Remark

- The % Reduction is calculated based on customer's requirement.
- % Reduction = $(A-B)/A * 100$
 where,
 A = The number of bacteria recovered from control at 0 hrs. contact time(CFU/piece of samples)
 B = The number of bacteria recovered from tested sample at 24 hrs. contact time(CFU/piece of samples)
- $R = (U_t - U_o) - (A_t - U_o) = U_t - A_t$

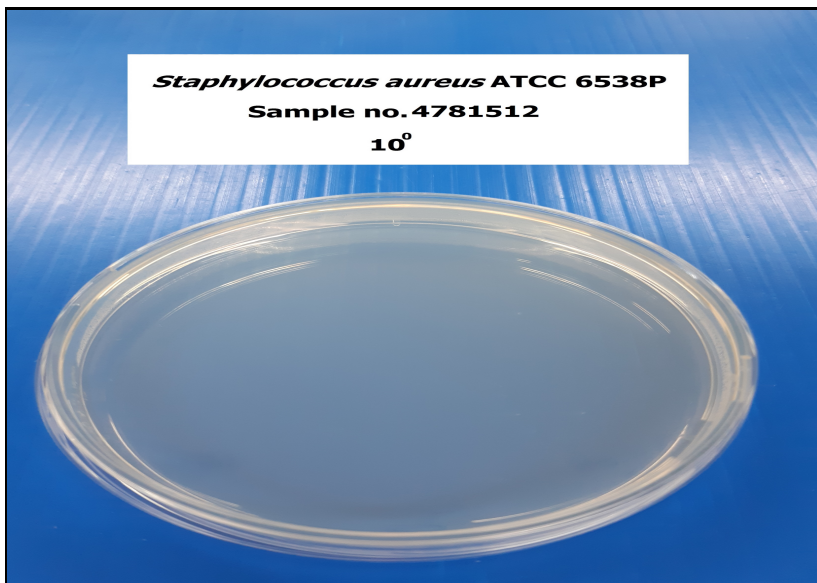
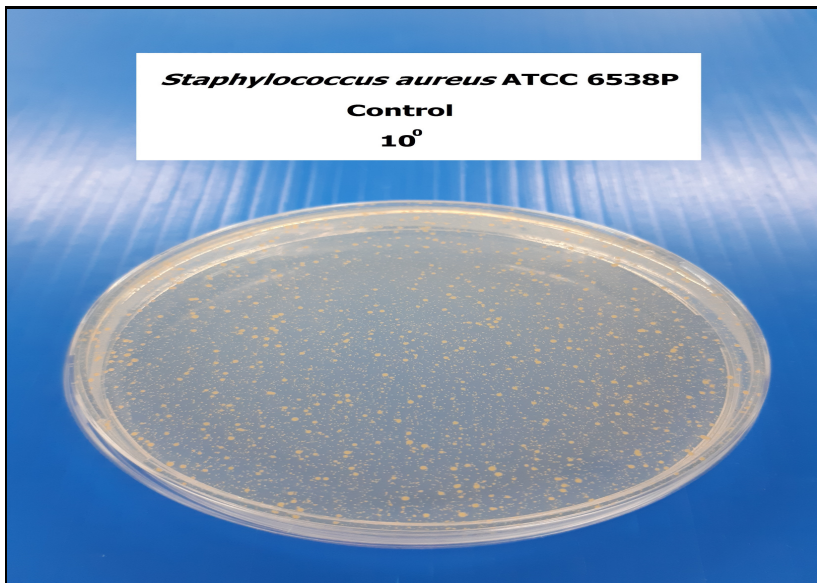
Where, R : antibacterial activity
 Uo : average of logarithm numbers of viable bacteria immediately after inoculation on untreated test piece
 Ut : average of logarithm numbers of viable bacteria after inoculation on untreated test piece after 24 h
 At : average of logarithm numbers of viable bacteria after inoculation on antibacterial test piece after 24 h
 Criteria : The value of antimicrobial activity obtained by the testing methods of this standard shall not be less than 2.0

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SAMPLE/ATTACHMENT PICTURE

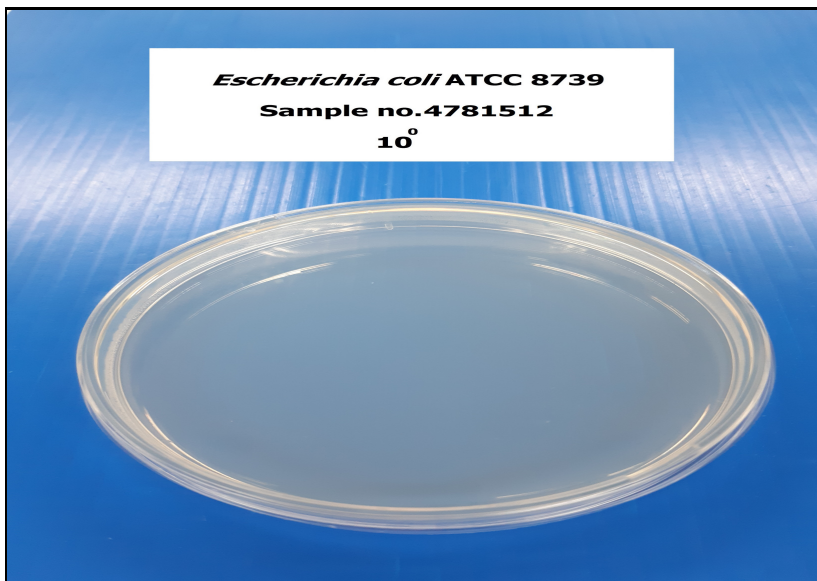


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***** End of Report *****

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