Test Report 測試報告

Number : TWNH00088908
報告號碼

Applicant: SHENG LIANG MATERIALS CO., LTD.
申請廠商 昇亮實業有限公司
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North Dist., Tainan City 704,
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Issue Date : Apr 15, 2021
報告發行日期

Sample Description 樣品敘述:

One (1) Group of Submitted Samples Said To Be :
以下測試樣品乃供應商所提供及確認：

Sample Description 樣品名稱	:	光學抗菌壓克力-CPM
Style / Item No. 產品型號	:	PLAB-CPM
Country of Origin 原產地	:	Taiwan 台灣
Date Sample Received 收件日期	:	Mar 29, 2021
Date Test Started 開始測試日期	:	Mar 29, 2021

Test Conducted 測試執行:

As requested by the applicant, for details please refer to attached pages.
依申請商之要求, 細節請參考附頁.

Authorized By 審核者:
On behalf of Intertek Testing Services Taiwan Limited
全國公證檢驗股份有限公司

Matt Wang 王政雄
Director 協理

Signed by 報告簽署人:

Thomas Chou 周世民
Manager 經理

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Test Conducted 測試內容：

Test for Antimicrobial Activity and Efficacy on Antimicrobial Products 抗菌加工製品抗菌性測試(定量試驗)

As per JIS Z 2801:2010 and amendment 1:2012.
依據 JIS Z 2801:2010 及其更新指令 1:2012。

Tested Specimen 測試樣品: Clear grey plastic sheet (release liner was excluded)

Result 結果:

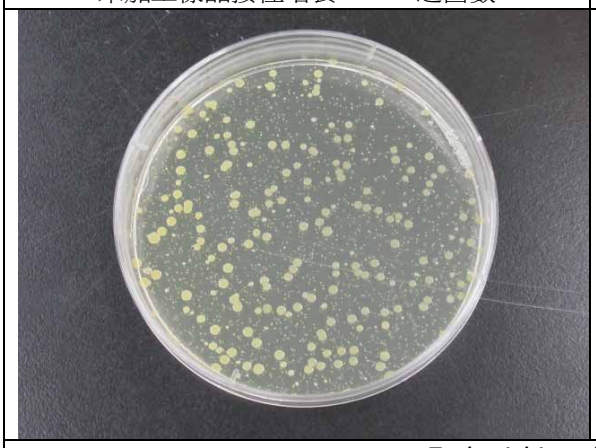
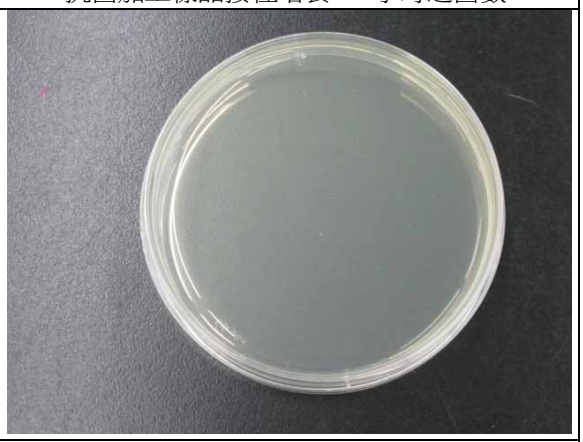
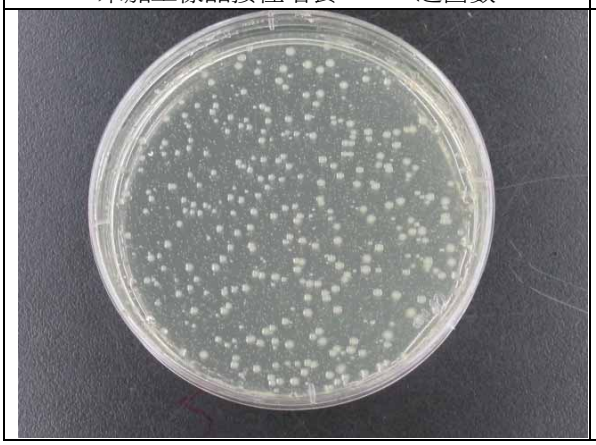
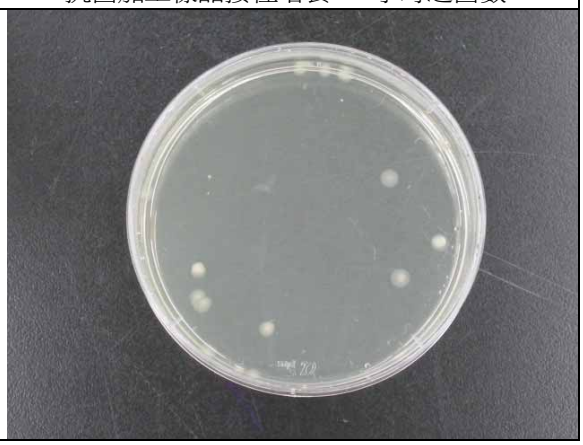
Name of Test Bacteria 試驗菌種 (Strain Number 保存編號)	*Staphylococcus aureus* 金黃色葡萄球菌 (ATCC 6538P)	*Escherichia coli* 大腸桿菌 (ATCC 8739)
Concentration of inoculum 接種菌液濃度	2.65 X 10^5 CFU/mL	3.95 X 10^5 CFU/mL
Average of the number of viable bacteria immediately after inoculation on the control sample 對照試樣接種後之菌數(U_0)	8.94 X 10^3 CFU/cm^2 (Log: 3.95)	6.37 X 10^3 CFU/cm^2 (Log: 3.80)
Average of the number of viable bacteria on the control sample after 24 hours 對照試樣經 24 小時培養後之菌數(U_t)	1.84 X 10^5 CFU/cm^2 (Log: 5.26)	6.16 X 10^5 CFU/cm^2 (Log: 5.79)
Average of the number of viable bacteria on the antimicrobial test piece after 24 hours 加工處理試樣經 24 小時培養後之菌數(A_t)	< 0.63 CFU/cm^2# (Log: --)	16 CFU/cm^2 (Log: 1.20)
Value of antimicrobial activity 抗菌效力(R)	> 4.63	4.59
Value of antimicrobial activity 抗菌效力(R)(%)	> 99.99	99.99

Calculation 計算公式：R = $(U_t-U_0) - (A_t-U_0) = U_t-A_t$
= $(U_t-A_t) / U_t$ x 100%

Remarks: CFU = Colony Forming Unit 菌落形成單位
備註 < = Less than 小於
> = More than 大於
= When the number of viable bacteria "At" is less than or equal to 1.0, it shall be taken as "At" and the average of logarithm numbers shall be calculated
當加工處理試樣經 24 小時培養後之菌數"At"小於或等於 1.0 時，log1.0 以 1.0 計算
The antimicrobial efficacy value shall be not less than 2.0 for antimicrobial products.
經抗菌加工處理之試樣，其抗菌效力(R)不可小於 2.0。

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Test Conducted 測試內容：

Staphylococcus aureus(ATCC 6538P) 金黃色葡萄球菌 (ATCC 6538P)	
Untreated Test Piece (24 Hours Incubation) 未加工樣品接種培養 24hrs 之菌數	Antimicrobial Test Piece (24 Hours Incubation) 抗菌加工樣品接種培養 24 小時之菌數
	
Escherichia coli (ATCC 8739) 大腸桿菌 (ATCC 8739)	
Untreated Test Piece (24 Hours Incubation) 未加工樣品接種培養 24hrs 之菌數	Antimicrobial Test Piece (24 Hours Incubation) 抗菌加工樣品接種培養 24 小時之菌數
	

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Sample photo 樣品照片:



End of Report

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Reporting Statements of Conformity: *Please note that the test results contain statement of conformity with the decision rules which are based on the specifications of customers, regulations and standards, and does not consider measurement uncertainty.*

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