

# TEST REPORT: 7191232766-CHM20-01-RC

Date: 11 MAR 2020

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## SUBJECT

Antibacterial Activity Evaluation

## CLIENT

Smart Paint Manufacturing Sdn. Bhd.  
9&11, Jalan Indah Gemilang 5,  
Taman Perindustrian Gemilang,  
81800 Ulu Tiram  
Johor

Attn : Ms. Siew Kor Shin

## SAMPLE SUBMISSION DATE / TEST DATE

17 Feb 2020 / 26 Feb 2020

## DESCRIPTION OF SAMPLE

One sample of "Smart Eco-Mediglo" was submitted.



## METHOD OF TEST

Based on JIS Z 2801:2010/A1:2012  
"Antibacterial products – Test for antibacterial activity and efficacy".

The test microorganisms used were :

*Staphylococcus aureus* (ATCC 6538P)  
*Escherichia coli* (ATCC 8739)  
Methicillin-resistant *Staphylococcus aureus* (NCTC 12493)

Size of Coated Sample: 5 cm x 5 cm  
Size of Uncoated Sample: 5 cm x 5 cm  
Size of film: 4 cm x 4 cm polyethylene film  
Volume of test inoculum : 0.2 ml



Laboratory:  
TÜV SÜD PSB Pte. Ltd.  
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**RESULTS**

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Value of Antibacterial Activity (Criteria : Not less than 2.0)
	0 hour	24 hours	
<b><i>Staphylococcus aureus</i> (ATCC 6538P)</b>			
Blank	100 000	11 000 000	-
Smart Eco-Mediglo	-	Less than 10	More than 6.06

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Value of Antibacterial Activity (Criteria : Not less than 2.0)
	0 hour	24 hours	
<b><i>Escherichia coli</i> (ATCC 8739)</b>			
Blank	120 000	12 000 000	-
Smart Eco-Mediglo	-	Less than 10	More than 6.09

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Value of Antibacterial Activity (Criteria : Not less than 2.0)
	0 hour	24 hours	
<b>Methicillin-resistant <i>Staphylococcus aureus</i> (NCTC 12493)</b>			
Blank	110 000	1 900 000	-
Smart Eco-Mediglo	-	Less than 10	More than 5.27



Remarks :

The above test results relate to the samples as received.

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**MS CHUA XINNI**  
HIGHER TECHNICAL  
EXECUTIVE

A handwritten signature in black ink, appearing to be 'RCF'.

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**MR RANDY CHIN KOK FEI**  
PRODUCT MANAGER  
MICROBIOLOGY  
CHEMICAL & MATERIALS



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July 2011

