

## TEST REPORT: 719191301-CHM10-LYP

Date: 04 JAN 2011

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### SUBJECT

Antimicrobial Activity of Coatings

### CLIENT

Calfarme (Singapore) Pte Ltd  
20 Ang Mo Kio Industrial Park 2A  
#06-18  
Singapore 567761

Attn : Mr. Ooi Delvin

### SAMPLE SUBMISSION DATE / TEST DATE

07 Dec 2010 / 23 Dec 2010

### DESCRIPTION OF SAMPLE

One sample of coated Polycarbonate (PC) panels as following:

1.	24 pieces coated PC panels labelled as "FOAMCARE NON-RINSE INSTANT HAND SANITIZER/ TOILET SEAT SANITIZER" (Dimension: 50mm x 50mm)
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### METHOD OF TEST

JIS Z 2801 : 2000

"Antimicrobial products – Test for antimicrobial activity and efficacy".

The test microorganisms used were :

*Staphylococcus aureus* (ATCC 6538P)

*Escherichia coli* (ATCC 8739)



TÜV SÜD PSB

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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 Antimicrobial Activity (Criteria : Not less than 2.0)
	0 hour	24 hours	
<b><i>Staphylococcus aureus</i> (ATCC 6538P)</b> <b>(7.0 x 10<sup>5</sup> cells)</b>			
Blank PC slides (Control)	110 000	4 400 000	-
Sample panel: FOAMCARE NON-RINSE INSTANT HAND SANITIZER/ TOILET SEAT SANITIZER	-	Less than 10	More than 5.64

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Value of Antimicrobial Activity (Criteria : Not less than 2.0)
	0 hour	24 hours	
<b><i>Escherichia coli</i> (ATCC 8739)</b> <b>(1.0 x 10<sup>5</sup> cells)</b>			
Blank PC slides (Control)	42 000	12 000 000	-
Sample panel: FOAMCARE NON-RINSE INSTANT HAND SANITIZER/ TOILET SEAT SANITIZER	-	Less than 10	More than 6.08

**Note :**

The value of Antimicrobial Activity was calculated as log<sub>10</sub> of average of the number of viable bacterial cells on the Blank PC slides (Control) after 24 hours minus the log<sub>10</sub> of average of the number of viable bacterial cells on the antimicrobial coated PC panels after 24 hours.

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Remarks :

The above test results related to the samples as received.

Handwritten signature of MS AW HWEE YING in black ink.

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**MS AW HWEE YING**  
TECHNICAL EXECUTIVE

Handwritten signature of MRS KAM-LEONG YIN PHENG in black ink.

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**MRS KAM-LEONG YIN PHENG**  
PRODUCT MANAGER  
MICROBIOLOGY  
CHEMICAL & MATERIALS



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March 2010