

## TEST REPORT: 7191127028-CHM15-01-RC

Date: 27 NOV 2015

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Client's Ref:

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### **SUBJECT**

Antimicrobial Activity Evaluation

### **CLIENT**

Duprex Singapore Pte Ltd  
Blk 5047 Ang Mo Kio Industrial Park 2  
#01-607  
Singapore 569550

Attn : Ms. Serene Ng

### **SAMPLE SUBMISSION DATE / TEST DATE**

26 Oct 2015 / 19 Nov 2015

### **DESCRIPTION OF SAMPLE**

One coated panels and one uncoated panels were submitted as per below.

1. Uncoated plastic (Control)
2. Cheerie Antimicrobial Treated Bin Liners

### **METHOD OF TEST**

ISO 22196 - 2011

"Plastic – Measurement of antibacterial activity on plastics surfaces".

The test microorganisms used were :

*Staphylococcus aureus* (ATCC 6538P)  
*Escherichia coli* (ATCC 8739)



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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 2.00)
	0 hour	24 hours	
<b><i>Staphylococcus aureus</i> (ATCC 6538P)</b>			
Uncoated plastic (Control)	120 000	10 000	-
Cheerie Antimicrobial Treated Bin Liners	-	Less than 10	More than 3.00

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 2.00)
	0 hour	24 hours	
<b><i>Escherichia coli</i> (ATCC 8739)</b>			
Uncoated plastic (Control)	150 000	49 000	-
Cheerie Antimicrobial Treated Bin Liners	-	Less than 10	More than 3.69

Note :

\* : Criteria making reference to JIS 2801 : 2012 "Antimicrobial products – Test for antimicrobial activity and efficacy"

Remarks :

The above test results related to the samples as received.

**MS AW HWEE YING**  
HIGHER TECHNICAL EXECUTIVE

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

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July 2011

