

## TEST REPORT: 7191373145-CHM26-01-WMY

Date: 04 FEB 2026

Email: joanne.wee@tuvsud.com

Client's Ref: -

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### **SUBJECT**

Antibacterial Activity Evaluation

### **CLIENT**

Duprex Singapore Pte Ltd  
Blk 5042 Ang Mo Kio Industrial Park 2  
#01-509  
Singapore 569545

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

19 Jan 2026 / 27 Jan 2026

### **DESCRIPTION OF SAMPLE**

One sample of panel described as below was submitted:

Product Type	: Antimicrobial Treated Bin Liners
Brand	: Cheerie
Manufacturer / Supplier	: Duprex Singapore Pte Ltd



Laboratory:  
TÜV SÜD PSB Pte. Ltd.  
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**METHOD OF TEST**

Based on ISO 22196 : 2011 "Measurement of antibacterial activity on plastics and other non-porous surfaces".

The test microorganisms used was :

*Escherichia coli* (ATCC 8739)

*Staphylococcus aureus* (ATCC 6538P)

Size of test material: 5 cm x 5 cm

Size of film: 4 cm x 4 cm polyethylene film

Volume of test inoculum : 0.2 ml



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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	
<i>Escherichia coli</i> (ATCC 8739)			
Control	110 000	15 000 000	-
Antimicrobial Treated Bin Liners	-	Less than 10	More than 6.17

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	
<i>Staphylococcus aureus</i> (ATCC 6538P)			
Control	120 000	14 000 000	-
Antimicrobial Treated Bin Liners	-	13	6.05

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Remarks :

The antibacterial product is determined that it has the antibacterial effectiveness, when the antibacterial activity thereof obtained according to the testing method of this standard is 2.0 or more. Based on the test results, the sample is considered to have the antibacterial effectiveness when tested using *Staphylococcus aureus* (ATCC 6538P) and *Escherichia coli* (ATCC 8739).

The above test results relate to the sample(s) as received.

A handwritten signature in black ink, appearing to read "H. Y. I." with a stylized flourish at the end.

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**MS AW HWEE YING**  
SENIOR TECHNICAL EXECUTIVE

A handwritten signature in black ink, appearing to read "J. W." with a stylized flourish at the end.

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**DR JOANNE WEE**  
EXECUTIVE MICROBIOLOGIST II  
MICROBIOLOGY  
CHEMICAL CENTRE





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Effective 27 March 2024

