

# TEST REPORT: 7191046403-CHM12-01-LYP\_CR1

Date: 08 NOV 2012

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Client's Ref:

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## **SUBJECT**

Antimicrobial Activity of MaxShield Hand Sanitizer Gel

## **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**

08 Oct 2012/ 12 Oct 2012

## **DESCRIPTION OF SAMPLE**

One sample of "MaxShield Hand Sanitizer Gel" was submitted

## **METHOD OF TEST**

BS EN 1040 : 2005

"Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of basic bactericidal activity of chemical disinfectants and antiseptics – Test method and requirements (Phase 1)".

The test microorganisms used were :

*Staphylococcus aureus* (ATCC 6538)  
*Pseudomonas aeruginosa* (ATCC 15442)



TÜV SÜD PSB

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**RESULTS**

Product Name : "MaxShield Hand Sanitizer Gel"

Test Microorganism : *Staphylococcus aureus* (ATCC 6538)

Dilution / Contact Time	Initial Count of Test Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log Reduction	Percentage Kill of Test Microorganism
	CFU per ml	Log <sub>10</sub>	CFU per ml	Log <sub>10</sub>		
<b>Neat</b>						
1 Minute	89 000 000	7.95	Less than 10	Less than 1	More than 6.95	More than 99.99999
3 Minutes	89 000 000	7.95	Less than 10	Less than 1	More than 6.95	More than 99.99999
5 Minutes	89 000 000	7.95	Less than 10	Less than 1	More than 6.95	More than 99.99999

Test Microorganism : *Pseudomonas aeruginosa* (ATCC 15442)

Dilution / Contact Time	Initial Count of Test Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log Reduction	Percentage Kill of Test Microorganism
	CFU per ml	Log <sub>10</sub>	CFU per ml	Log <sub>10</sub>		
<b>Neat</b>						
1 Minute	220 000 000	8.34	40 000 000	7.60	0.74	81.82
3 Minutes	220 000 000	8.34	30	1.48	6.87	99.99999
5 Minutes	220 000 000	8.34	Less than 10	Less than 1	More than 7.34	More than 99.999995

Notes :

CFU : Colony Forming Unit



Note :

The value of Antimicrobial Activity was calculated as  $\log_{10}$  of average of the number of viable bacterial cells on the Blank Panel (Control) after 24 hours minus the  $\log_{10}$  of average of the number of viable bacterial cells on the Sample Panel after 24 hours.

The neat sample submitted has passed the standard BS EN 1040 for bactericidal activity.

Amendments :

The Sample Description was amended from "Hand Sanitizer Gel" to "MaxShield Hand Sanitizer Gel" on 11 Jan 2013 as requested.

Remarks:

The above test results relate to the sample as received.

Handwritten signature of MS AW HWEE YING in black ink.

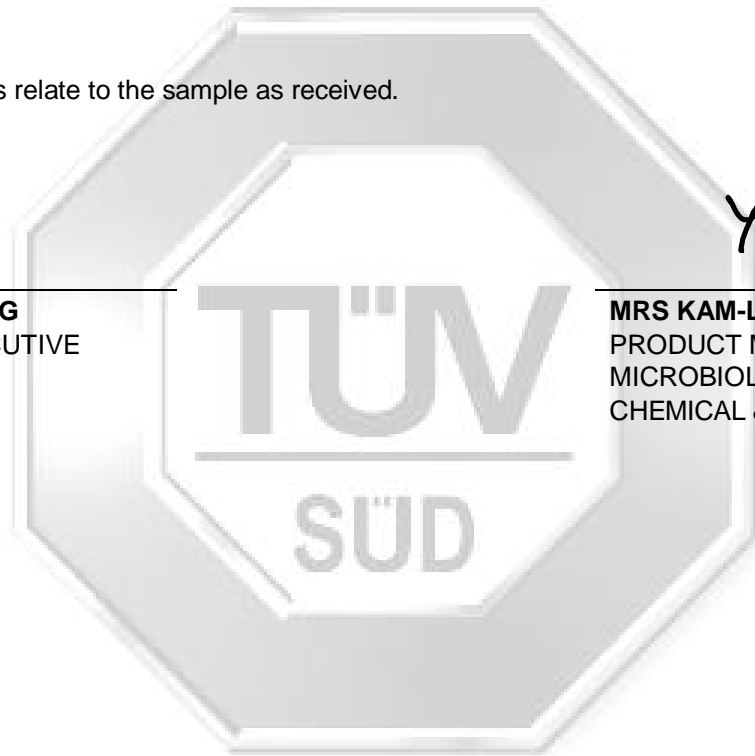
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**MS AW HWEE YING**  
TECHNICAL EXECUTIVE

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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July 2011

