

TEST REPORT: 7191046403-CHM12-04-LYP

Date: 08 NOV 2012

Tel: +65 68851346 Fax: +65 67732912

Client's Ref:

Email: Yin-Pheng.LEONG@tuv-sud-psb.sg

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SUBJECT

Antimicrobial Activity of MaxShield Instant Hand Sanitizer

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 Instant Hand Sanitizer" 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)



Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223
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RESULTS

Product Name : "MaxShield Instant Hand Sanitizer"

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 ₁₀	CFU per ml	Log ₁₀		
Neat						
1 Minute	110 000 000	8.04	Less than 10	Less than 1	More than 7.04	More than 99.999991
3 Minutes	110 000 000	8.04	Less than 10	Less than 1	More than 7.04	More than 99.999991
5 Minutes	110 000 000	8.04	Less than 10	Less than 1	More than 7.04	More than 99.999991

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 ₁₀	CFU per ml	Log ₁₀		
Neat						
1 Minute	220 000 000	8.34	Less than 10	Less than 1	More than 7.34	More than 99.999995
3 Minutes	220 000 000	8.34	Less than 10	Less than 1	More than 7.34	More than 99.999995
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

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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 "Liquid Hand Sanitizer" to "MaxShield Instant Hand Sanitizer" on 11 Jan 2013 as requested.

Remarks:

The above test results relate to the sample as received.

A handwritten signature in black ink, appearing to read 'Hyl'.

MS AW HWEE YING
TECHNICAL EXECUTIVE

A handwritten signature in black ink, appearing to read 'Yp'.

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

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July 2011

