

TEST REPORT: 7191128892-CHM16-03-RC

Date: 13 JAN 2016

Tel: +65 68851345 Fax: +65 67732912

Client's Ref:

Email: Randy.CHIN@tuv-sud-psb.sg

Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.



PSB Singapore

Choose certainty.
Add value.

SUBJECT

Antimicrobial Activity Evaluation

CLIENT

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

Attn : Bernard Yio

SAMPLE SUBMISSION DATE/ TEST DATE

30 Nov 2015 / 09 Dec 2015

DESCRIPTION OF SAMPLE

One liquid sample labelled as "Bactericidal Cleaner" 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)

Dilution tested : Neat

Contact time : 5 minutes



TÜV SÜD PSB

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
TUV®

TEST REPORT: 7191128892-CHM16-03-RC

13 JAN 2016



PSB Singapore

RESULTS

Product Name : "Bactericidal Cleaner"

Test Microorganism : *Staphylococcus aureus* (ATCC 6538)

Concentration / 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 5 minutes	52 000 000	7.72	Less than 10	Less than 1	More than 6.72	More than 99.99998

Test Microorganism : *Pseudomonas aeruginosa* (ATCC 15442)

Concentration / 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 5 minutes	89 000 000	7.95	Less than 10	Less than 1	More than 6.95	More than 99.99999

TEST REPORT: 7191128892-CHM16-03-RC

13 JAN 2016



PSB Singapore

Remarks :

The product shall be deemed to have passed the test if it demonstrates a **5 Log reduction or more** (at least >99.999% kill) in viability within 5 minutes or less under the conditions defined by this test when the test organisms are *Staphylococcus aureus* and *Pseudomonas aeruginosa*.

This test method evaluates the basic bactericidal activity of chemical disinfectants with no specific application. It does not evaluate the activity of a product for an intended use. More specific test methods are used for further assessment of the efficacy of chemical disinfectants and antiseptics for a defined purpose.

The above test results relate to the sample as received.

Handwritten signature of MS AW HWEE YING in black ink.

MS AW HWEE YING
HIGHER TECHNICAL EXECUTIVE

Handwritten signature of MR RANDY CHIN KOK FEI in black ink.

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



TEST REPORT: 7191128892-CHM16-03-RC

13 JAN 2016



PSB Singapore

Please note that this Report is issued under the following terms :

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD PSB or to the report or results furnished by TÜV SÜD PSB in any advertisements or sales promotion.
5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011

