

TEST REPORT: 7191235080-CHM20-04-RC

Date: 06 APR 2020

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

Add value.
Inspire trust.

SUBJECT

Antifungal Activity Evaluation

CLIENT

Nila Singapore Pte Ltd
24 Sin Ming Lane
#05-103 Midview City
Singapore 573970

Attn : Janet Tan

SAMPLE SUBMISSION DATE/ TEST DATE

18 Mar 2020 / 26 Mar 2020

DESCRIPTION OF SAMPLE

One sample labelled as follows was submitted.

Product: Shield Disinfecting Spray

METHOD OF TEST

BS EN 1275 : 2005

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

The test microorganisms used were :

Candida albicans (ATCC 10231)

Aspergillus niger (ATCC 16404)

Dilution tested : Neat

Contact time : 15 minutes

Neutralization method: D/E Neutralization broth

Test temperature: 20±1°C

Incubation temperature: 30±1°C



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

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

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
TÜV®

TEST REPORT: 7191235080-CHM20-04-RC

06 APR 2020



PSB Singapore

RESULTS

Product : Shield Disinfecting Spray

Validation and controls

Controls	Validation Suspension (Nv ₀)	30<Nv ₀ <160 (Pass / Fail)	Experimental Condition control (A)	Neutralizer control (B)	Method Validation (C) Product Concentration: Neat	B and C ≥0.5 x Nv ₀ (Pass / Fail)
<i>Candida albicans</i> (ATCC 10231)	65	Pass	N.A.	59	58	Pass

Test Microorganism : *Candida albicans* (ATCC 10231)

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		
15 minutes Neat	3 000 000	6.48	Less than 10	Less than 1	More than 5.48	More than 99.9996

TEST REPORT: 7191235080-CHM20-04-RC

06 APR 2020



PSB Singapore

RESULTS (cont'd)

Product : Shield Disinfecting Spray

Validation and controls

Controls	Validation Suspension (N_{v0})	$30 < N_{v0} < 160$ (Pass / Fail)	Experimental Condition control (A)	Neutralizer control (B)	Method Validation (C) Product Concentration: Neat	B and C $\geq 0.5 \times N_{v0}$ (Pass / Fail)
<i>Aspergillus niger</i> (ATCC 16404)	66	Pass	N.A.	35	34	Pass

Test Microorganism : *Aspergillus niger* (ATCC 16404)

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}		
15 minutes Neat	1 900 000	6.28	95	1.98	4.30	99.995

TEST REPORT: 7191235080-CHM20-04-RC

06 APR 2020



PSB Singapore

Remarks :

The product shall be deemed to have passed the test for fungicidal activity if it demonstrates a 4 Log reduction or more (at least >99.99%) in viability within 15 minutes under the conditions defined by this test using mould as test organisms.

The product shall be deemed to have passed the test for yeasticidal activity if it demonstrates a 4 Log reduction or more (at least >99.99%) in viability within 15 minutes under the conditions defined by this test using yeasts as test organisms.

This test method evaluates the basic fungicidal and yeasticidal 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.

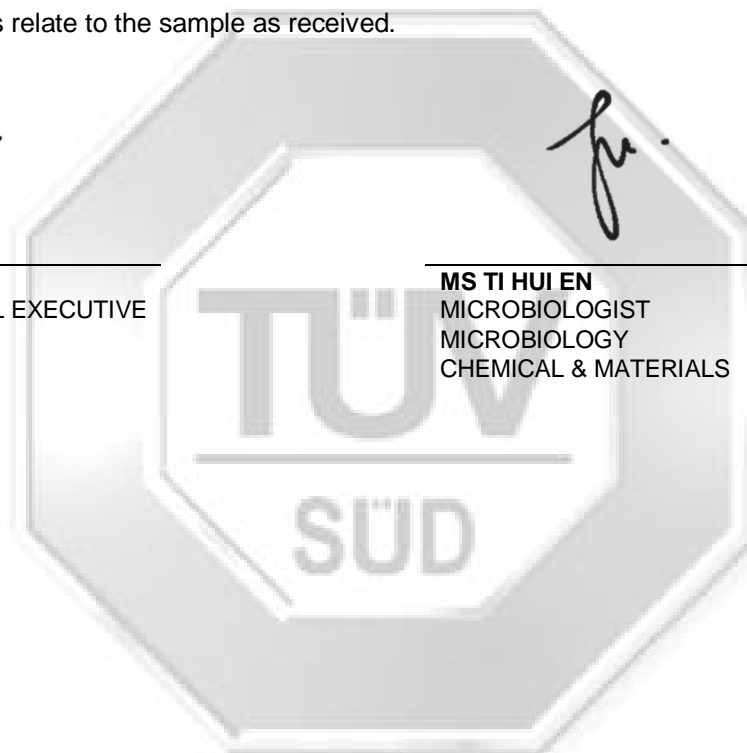
The above test results relate to the sample as received.

A handwritten signature in black ink, appearing to be 'CX'.

MS CHUA XINNI
HIGHER TECHNICAL EXECUTIVE

A handwritten signature in black ink, appearing to be 'TH'.

MS TI HUI EN
MICROBIOLOGIST
MICROBIOLOGY
CHEMICAL & MATERIALS





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

