

TEST REPORT: 7191235080-CHM20-01-RC

Date: 06 APR 2020

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Client's Ref:

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SUBJECT

Antibacterial 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 / 25 Mar 2020

DESCRIPTION OF SAMPLE

One sample labelled as follows was submitted.

Product: Shield Hand Sanitiser

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 :

Pseudomonas aeruginosa (ATCC 15442)

Staphylococcus aureus (ATCC 6538)

Dilution tested : Neat

Contact time : 5 minutes

Neutralization method: DE Broth Neutralization

Test temperature: 20±1°C

Incubation temperature: 36±1°C



TÜV SÜD PSB

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TEST REPORT: 7191235080-CHM20-01-RC
06 APR 2020



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RESULTS

Product : Shield Hand Sanitiser

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>Pseudomonas aeruginosa</i> (ATCC 15442)	33	Pass	N.A.	34	65	Pass

Test Microorganism : *Pseudomonas aeruginosa* (ATCC 15442)

Contact Time / Concentration	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		
5 minutes Neat	19 000 000	7.28	Less than 10	Less than 1	More than 6.28	More than 99.99994

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RESULTS (cont'd)

Product : Shield Hand Sanitiser

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>Staphylococcus aureus</i> (ATCC 6538)	44	Pass	N.A.	57	48	Pass

Test Microorganism : *Staphylococcus aureus* (ATCC 6538)

Contact Time / Concentration	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		
5 minutes Neat	20 000 000	7.30	Less than 10	Less than 1	More than 6.30	More than 99.99995

TEST REPORT: 7191235080-CHM20-01-RC

06 APR 2020



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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 *Pseudomonas aeruginosa* and *Staphylococcus aureus*.

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 CHUA XINNI in black ink.

MS CHUA XINNI
HIGHER TECHNICAL EXECUTIVE

Handwritten signature of MS TI HUI EN in black ink.

MS TI HUI EN
MICROBIOLOGIST
MICROBIOLOGY
CHEMICAL & MATERIALS



TEST REPORT: 7191235080-CHM20-01-RC
06 APR 2020



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July 2011

