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**EN 13704: SPORICIDAL EFFICACY ————— FINAL TEST REPORT**

Contact Person: **KYLE MOORE**  
Company: **BLULYTE (PTY) LTD**  
**7 DIPKA ROAD**  
**STIKLAND INDUSTRIAL**  
**CAPE TOWN**  
**7530**

Lab Number : **M20-12106**  
Order reference : **BLU026**  
Sample Date : **25/09/2020**  
Submit Date : **25/09/2020**  
Report Date : **12/10/2020**

**Disclaimer:**

The results reported relate only to the samples tested and is expressed on an 'as received' basis unless specified otherwise. The test report shall not be reproduced except in full, without written approval of the Laboratory.

**SANS 53704:2006 - Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.**

<b>Product Identification:</b>	<b>BLULYTE HOCL</b>
<b>Active Substances:</b>	HYPOCHLOROUS ACID

<b>Batch Number:</b>	NOT SUPPLIED
<b>Expiry Date:</b>	NOT SUPPLIED
<b>Storage Conditions:</b>	AMBIENT OUT OF DIRECT SUNLIGHT
<b>Recommended Diluent:</b>	NONE

<b>Appearance of Product:</b>	SUITABLE FOR TESTING
<b>Diluent Used in Test:</b>	STERILE DISTILLED WATER
<b>Product Concentrations:</b>	NEAT
<b>Appearance of Dilutions:</b>	HOMOGENOUS SUSPENSION
<b>Interfering Substances:</b>	0,3G BOVINE SERUM ALBUMIN
<b>Appearance during Test:</b>	HOMOGENOUS SUSPENSION
<b>Method:</b>	DILUTION NEUTRALIZATION
<b>Neutralizer / Rinsing Liquid:</b>	UNIVERSAL NEUTRALISER

<b>Analysis performed by:</b>	J. JACOBS
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## **Conclusion:**

### **Validations and Controls:**

All validations and controls were within specification during the test

BLULYTE HOCL was able to eliminate >99,9% of *Bacillus subtilis* spores in a 60 minute contact period under simulated clean conditions with the addition of 0,3g/L bovine serum albumin as required by SANS53704 at the lowest tested concentration of 200ppm.

The product BLULYTE HOCL complies with the minimum performance requirement for surface disinfectants as prescribed by SANS53704 for use in industrial, institutional and domestic areas.



Johan Jacobs  
Technical Advisor

<b>Organism:</b>	<b>Bacillus subtilis ATCC11774</b>	<b>Replicate:</b>	<b>1 OF 2</b>
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<b>Test Date:</b>	07/10/2020	<b>Test Temp.</b>	20 °C	<b>Incubation Temp.</b>	37 °C
<b>Test conditions:</b>	CLEAN	<b>Contact time:</b>	60 MINUTES	<b>Analyst:</b>	J JACOBS

<b>Organism suspension</b>	10 <sup>-4</sup>	191	<b>Organism suspension (N)</b>	2.03 X 10 <sup>6</sup>	Log	6.31	
		209		<b>Test suspension (N<sub>o</sub>)</b>	2.03 X 10 <sup>5</sup>	Log	5.31
	10 <sup>-5</sup>	21		<b>5.17 ≤ LgN<sub>o</sub> ≤ 5.70?</b>	Yes	Control	Pass
		27		<b>Validation suspension</b>	51	47	Control

	V <sub>c1</sub>	V <sub>c2</sub>	$\bar{X}$	$\bar{X} \geq 0.5XN_{v0}$	Control
<b>Experimental condition control (A)</b>	53	47	50	Yes	Pass
<b>Neutralizer control (B)</b>	43	50	46.5	Yes	Pass
<b>Methoc Validation (C)</b>	41	46	43.5	Yes	Pass

Concentration	V <sub>c1</sub>	V <sub>c2</sub>	N <sub>a</sub>	Log N <sub>a</sub>	Log <sub>red</sub>	% Kill Rate	Compliance
80% @ 400ppm	0	0	<10	<1	>3	>99.9%	PASS
60% @ 300ppm	0	0	<10	<1	>3	>99.9%	PASS
50% @ 250ppm	0	0	<10	<1	>3	>99.9%	PASS
40% @ 200ppm	0	0	<10	<1	>3	>99.9%	PASS
10% @ 50ppm	>300	>300	>3000	>3.45	<3	<99.9%	FAIL

Lowest Effective concentration	200ppm
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<b>Organism:</b>	<b>Bacillus subtilis ATCC11774</b>	<b>Replicate:</b>	<b>2 OF 2</b>
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		27		<b>Validation suspension</b>	51	47	Control

	V <sub>c1</sub>	V <sub>c2</sub>	$\bar{X}$	$\bar{X} \geq 0.5XN_{v0}$	Control
<b>Experimental condition control (A)</b>	53	47	50	Yes	Pass
<b>Neutralizer control (B)</b>	43	50	46.5	Yes	Pass
<b>Methoc Validation (C)</b>	45	38	41.5	Yes	Pass

Concentration	V <sub>c1</sub>	V <sub>c2</sub>	N <sub>a</sub>	Log N <sub>a</sub>	Log <sub>red</sub>	% Kill Rate	Compliance
80% @ 400ppm	0	0	<10	<1	>3	>99.9%	PASS
60% @ 300ppm	0	0	<10	<1	>3	>99.9%	PASS
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