



Portion 5, Corporate Park South, Midrand  
Postnet Suite 125, Private bag X3, The Reeds  
Tel: +27 12 685 0800  
E-mail: Microlab@aspirata.co.za  
Web address: www.aspirata.co.za

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

Contact Person: **CHRIS VORSTER**  
Company: **PHEND PHARMA PTY LTD**  
**17 WESTMINSTER AVE**  
**BRYANSTON**  
**SANDTON**  
**2192**

Lab Number : **M20-5561**  
Order reference : **PEROXASIL Ag+**  
Sample Date : **25/05/2020**  
Submit Date : **25/05/2020**  
Report Date : **29/06/2020**

**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>PEROXASIL Ag+</b>
<b>Active Substances:</b>	HYDROGEN PEROXIDE AND SILVER IONS

<b>Batch Number:</b>	202005-1
<b>Expiry Date:</b>	MAY 2022
<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 HARD WATER
<b>Product Concentrations:</b>	3%
<b>Appearance of Dilutions:</b>	HOMOGENOUS SUSPENSION
<b>Interfering Substances:</b>	0,3g/L BOVINE SERUM ALBUMIN
<b>Appearance during Test:</b>	HOMOGENOUS SUSPENSION
<b>Method:</b>	MEMBRANE FILTRATION
<b>Neutralizer / Rinsing Liquid:</b>	TRYPTONE SOY + 30g/L POLYSORBATE 80

<b>Analysis performed by:</b>	J JACOBS
-------------------------------	----------

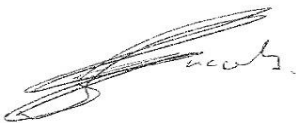
## **Conclusion:**

### **Validations and Controls:**

All validations and controls were within specification during the test

Testing was performed using the membrane filtration method as no suitable neutraliser could be found to inactivate the effect of the silver ions in the culture media.

PEROXISIL Ag+ eliminated >99,9% of viable *Bacillus subtilis Spores* when allowed a contact period of 60 minutes under simulated clean conditions with bovine serum albumin at a concentration of 0,3g/L.



Johan Jacobs  
Technical Advisor

<b>Organism:</b>	<b>Bacillus subtilis ATCC11774</b>
<b>Replicate:</b>	<b>1 of 2</b>

<b>Test Date:</b>	<b>24/06/2020</b>
<b>Test Temperature:</b>	20°C
<b>Incubation Temperature:</b>	37°C

**Validation and Controls:**

Validation suspension (N <sub>v0</sub> )		Experimental condition control (A)		Filtration control (B)		Method Validation (C)	
V <sub>c</sub> 1a	28	V <sub>c</sub> 1a	51	V <sub>c</sub> 1a	47	V <sub>c</sub> 1a	31
V <sub>c</sub> 1b	31						
V <sub>c</sub> 2a	26	V <sub>c</sub> 2a	54	V <sub>c</sub> 2a	44	V <sub>c</sub> 2a	37
V <sub>c</sub> 2b	28						
$\bar{X} =$	56,5	$\bar{X} =$	52,5	$\bar{X} =$	45,5	$\bar{X} =$	34
Spec	$30 \leq \bar{X} \leq 160$	Spec	$\bar{X} \geq 0.5 \times N_{v0}$	Spec	$\bar{X} \geq 0.5 \times N_{v0}$	Spec	$\bar{X} \geq 0.5 \times N_{v0}$
Complies	<b>Yes</b>	Complies	<b>Yes</b>	Complies	<b>Yes</b>	Complies	<b>Yes</b>

**Test Suspension and Test:**

Test Suspension (N and N <sub>0</sub> ):	<b>N</b>	<b>V<sub>c</sub>1</b>	<b>V<sub>c</sub>2</b>	<b><math>\bar{X}</math> wm = 2,60E+06</b>	<b>log10N= 6,41</b>
	10 <sup>-4</sup>	>150	>150	N <sub>0</sub> = N/10	log10N <sub>0</sub> = 5,41
	10 <sup>-5</sup>	28	24	5.17 ≤ LgN <sub>0</sub> ≤ 5.70?	<b>Yes</b>

Product Conc. %	Vc1	Vc2	Na = $\bar{X}$ x 10	Log Na	Log R	Contact time
6%	0	0	<10	<1	>4	60 MINUTES
3%	0	0	<10	<1	>4	60 MINUTES
0,3%	>150	>150	>1500	>3,18	<3,29	60 MINUTES

**Summary:**

Lowest effective concentration	3%
--------------------------------	----

<b>Organism:</b>	<b>Bacillus subtilis ATCC11774</b>
<b>Replicate:</b>	<b>2 of 2</b>

<b>Test Date:</b>	<b>24/06/2020</b>
<b>Test Temperature:</b>	20°C
<b>Incubation Temperature:</b>	37°C

### Validation and Controls:

Validation suspension (N <sub>v0</sub> )		Experimental condition control (A)		Filtration control (B)		Method Validation (C)	
V <sub>c</sub> 1a	28	V <sub>c</sub> 1a	51	V <sub>c</sub> 1a	47	V <sub>c</sub> 1a	31
V <sub>c</sub> 1b	31						
V <sub>c</sub> 2a	26	V <sub>c</sub> 2a	54	V <sub>c</sub> 2a	44	V <sub>c</sub> 2a	37
V <sub>c</sub> 2b	28						
$\bar{X} =$	56,5	$\bar{X} =$	52,5	$\bar{X} =$	45,5	$\bar{X} =$	34
Spec	$30 \leq \bar{X} \leq 160$	Spec	$\bar{X} \geq 0.5 \times N_{v0}$	Spec	$\bar{X} \geq 0.5 \times N_{v0}$	Spec	$\bar{X} \geq 0.5 \times N_{v0}$
Complies	<b>Yes</b>	Complies	<b>Yes</b>	Complies	<b>Yes</b>	Complies	<b>Yes</b>

### Test Suspension and Test:

Test Suspension (N and N <sub>0</sub> ):	<b>N</b>	<b>V<sub>c</sub>1</b>	<b>V<sub>c</sub>2</b>	<b><math>\bar{X}</math> wm = 2,60E+06</b>	<b>log10N= 6,41</b>
	10 <sup>-4</sup>	>150	>150	N <sub>0</sub> = N/10	log10N <sub>0</sub> = 5,41
	10 <sup>-5</sup>	28	24	5.17 ≤ LgN <sub>0</sub> ≤ 5.70?	<b>Yes</b>

Product Conc. %	Vc1	Vc2	Na = $\bar{X}$ x 10	Log Na	Log R	Contact time
6%	0	0	<10	<1	>4	60 MINUTES
3%	0	0	<10	<1	>4	60 MINUTES
0,3%	>150	>150	>1500	>3,18	<3,29	60 MINUTES

### Summary:

Lowest effective concentration	3%
--------------------------------	----