

## TEST REPORT: 7191179723-CHM18-01-RC

Date: 20 FEB 2018

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Client's Ref:

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### **SUBJECT**

Antimicrobial Activity Evaluation

### **CLIENT**

Excelsia Technologies Sdn Bhd  
Unit 103, Blk C, Damansara Intan,  
47400 PJ, Selangor, Malaysia

### **SAMPLE SUBMISSION DATE/ TEST DATE**

18 Jan 2018 / 02 Feb 2018

### **DESCRIPTION OF SAMPLE**

One liquid sample labelled as below was submitted.

Product: Bactakleen Ultra Mist Solution (Herbal Formula)

### **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  
Neutralization method: D/E Neutralization Broth  
Test temperature: 20±1°C  
Incubation temperature: 36±1°C



TÜV SÜD PSB

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**RESULTS**

Product : Bactakleen Ultra Mist Solution (Herbal Formula)

Validation and controls

Controls	Validation Suspension (N <sub>v0</sub> )	30<N <sub>v0</sub> <160 (Pass / Fail)	Neutralizer control (A)	Neutralizer control (B)	Method Validation (C) Product Concentration: Neat	B and C ≥0.5 x N <sub>v0</sub> (Pass / Fail)
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	45	Pass	N.A.	50	45	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 <sub>10</sub>	CFU per ml	Log <sub>10</sub>		
<b>5 minutes</b> Neat	47 000 000	7.67	Less than 10	Less than 1	More than 6.67	More than 99.99998

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**RESULTS (Cont)**

Product : Bactakleen Ultra Mist Solution (Herbal Formula)

Validation and controls

Controls	Validation Suspension (Nv <sub>0</sub> )	30<Nv <sub>0</sub> <160 (Pass / Fail)	Neutralizer control (A)	Neutralizer control (B)	Method Validation (C) Product Concentration: Neat	B and C ≥0.5 x Nv <sub>0</sub> (Pass / Fail)
<i>Staphylococcus aureus</i> (ATCC 6538)	96	Pass	N.A.	104	104	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 <sub>10</sub>	CFU per ml	Log <sub>10</sub>		
<b>5 minutes</b> Neat	46 000 000	7.66	300	2.48	5.19	99.9993

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Remarks :

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.

A handwritten signature in black ink, appearing to read 'Hwy'.

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**MS AW HWEE YING**  
HIGHER TECHNICAL EXECUTIVE

A handwritten signature in black ink, appearing to read 'Randy'.

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



baac

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July 2011

