27 Gul Avenue, Singapore 629667 Tel: 63396136 Fax: 62557608 Email: admin@astarlab.com.sg Company Registration No. & GST: 201323826G

TEST REPORT NO: ASL-M177-19-S

Company Name

: Life3 Pte Ltd

Address

: 17 Kaki Bukit Place, Singapore 416195

Date Received

: 03 May 2019

Date Tested

: 03 May - 13 May 2019

Date Reported

: 14 May 2019

Sample Description: One (1) sample said to be Quantum Ion Series

Sample was submitted by client on 03 May 2019 in a plastic container marked as:

Quantum Ion Series E304

On analysis, the following results were obtained:

Test Microorganism	Initial Bacterial Load, cfu/mL	Log ₁₀
Salmonella Typhimurium ATCC 14028	6.1 x 10 ⁸	8.79
Staphylococcus aureus ATCC 25923	1.3 x 10 ⁹	9.11
Candida Albicans ATCC 10231	4.1 x 10 ⁶	6.61

Contact Time: 5 minutes, no dilution

Test Microorganism	Count of Surviving Test Microorganism, CFU/ml (Log ₁₀)	Log Reduction	Percentage Kill of Test Microorganism, %
Staphylococcus aureus ATCC 25923	<10 (1.0)	> 8.11	> 99.9999
Salmonella Typhimurium ATCC 14028	<10 (1.0)	> 7.79	> 99.9999
Candida Albicans ATCC 10231	<10 (1.0)	> 5.61	> 99.9999



TEST REPORT NO: ASL-M177-19-S

Contact time: 60 minutes, no dilution

Test Microorganism	Count of Surviving Test Microorganism, CFU/ml (Log ₁₀)	Log Reduction	Percentage Kill of Test Microorganism, %
Staphylococcus aureus ATCC 25923	<10 (1.0)	> 8.11	> 99.9999
Salmonella Typhimurium ATCC 14028	<10 (1.0)	> 7.79	> 99.9999
Candida Albicans ATCC 10231	<10 (1.0)	> 5.61	> 99.9999

Remarks:

- 1) The above results were tested as per sample submitted.
- 2) Test Method: In house method with reference to United States Pharmacopeia (USP) 41.
- 3) This report supersedes Test Report No. ASL-M177-19.

Roselle Monteloyola Laboratory Manager