Table C: Summary of the log reductions of the quantitative suspension test according to EN 14476

Test strain	Test concentration (%) / contact time (min)	Log reduction ($TCID_{50}$/ml)	Percentage reduction (%)	Associated risk†
Human coronavirus ATCC VR-740	100.00* / 1	**≥4.07 ± 0.18**	99.99	< 50 % risk of false acceptance
	100.00* / 3	**≥4.07 ± 0.18**	99.99	< 50 % risk of false acceptance
	100.00* / 5	**≥4.07 ± 0.18**	99.99	< 50 % risk of false acceptance
	100.00* / 10	**≥4.07 ± 0.18**	99.99	< 50 % risk of false acceptance
	100.00* / 15	**≥4.07 ± 0.18**	99.99	< 50 % risk of false acceptance
	100.00* / 30	**≥4.07 ± 0.18**	99.99	< 50 % risk of false acceptance

* The product can only be tested at 80.00 % concentration or less, as some dilution always occurs when test organisms and interfering substance are added.

† The decision rule applied is simple acceptance rule with no guard band and up to 50 % risk of false acceptance or rejection. This rule has been determined by the laboratory and agreed with the client prior to testing.

Description: Testing the efficacy of chemical disinfectants and antiseptics (EN 14476)

Lab No.: VX-136-20-0001
Test Period: 11 May – 23 May 2021
Test Report No.: VX-TR-21-0459
Report Date: 19 May 2021
Copy No.: 1

Client Name: Living Jungle Healthcare Sdn. Bhd.
Sample Name: Living Jungle Disinfectant
Batch No.: IK2555-8
Sample Receipt Date: 9 December 2020

Living Jungle Healthcare Sdn. Bhd.
No. 12, Jalan Meru Indah 20,
Taman Perindustrian Meru Indah,
42200 Kapar, Klang,
Selangor

Efficacy of Living Jungle Disinfectant against *Human coronavirus,* strain 229E, ATCC VR-740 in a quantitative suspension test at 20 °C according to EN14476:2013+A1:2015 (E) under dirty condition

EXPERT OPINION*

This expert opinion is based on the test report VX-TR-21-0459 dated 24 May 2021.

The virucidal activity of the disinfectant Living Jungle Disinfectant of Living Jungle Healthcare Sdn. Bhd. against *Human coronavirus* ATCC VR-740 was investigated by a quantitative suspension test according to EN14476:2013+A1:2015 (E) under dirty condition (3.00 g/L bovine albumin solution and 3.00 ml/L sheep erythrocytes).

According to this suspension test, a disinfectant or a disinfectant solution at a particular concentration is considered as having virucidal activity if the virus titre is reduced by ≥4 $\log_{10}$ (inactivation ≥99.99 %) within the recommended exposure period.

Living Jungle Disinfectant was examined at 20 °C at the concentration of 100.00 %** for the exposure times of 1, 3, 5, 10, 15 and 30 minutes. After the exposure times, the viral reduction exceeded 4 $\log_{10}$-steps in all assays. According to the simple acceptance decision rule†, there is a minimal risk of false acceptance. Therefore, a virucidal activity against *Human coronavirus* ATCC VR-740 was measured as follows:

Dirty condition	100.00 %**	1, 3, 5, 10, 15 and 30 minutes

Kuala Lumpur, 24 May 2021

Dr Syazani Suhaimi
Microbiologist

Dr Peter Cheong
Head of Microbiology Laboratories

* Opinions and interpretations expressed here are outside the scope of SAMM (Laboratory Accreditation Scheme of Malaysia) accreditation.

** The product can only be tested at 80.00 % concentration or less, as some dilution always occurs when test organisms and interfering substance are added.

† The decision rule applied is simple acceptance rule with no guard band and up to 50 % risk of false acceptance or rejection. This rule has been determined by the laboratory and agreed with the client prior to testing.