

## **IDENTIFICATION OF TESTING LABORATORY**

### **IDENTIFICATION OF CLIENT**

OKA International Sdn. Bhd.  
13-2, Jalan Tanjung SD13/1  
Bandar Sri Damansara  
52200 Kuala Lumpur  
Malaysia

### **IDENTIFICATION OF TEST ITEM**

Test item name: OkaAir Detoxifier 8 in 1 v3 & v3 Compact

Lab ID: O002-22-002

Serial no.: 21080272

Manufacturer: OKA International Sdn. Bhd.

Receipt date: 25 April 2022

Storage conditions: Room temperature away from sunlight

Active substances: Hydroxyl ions  
Plasma ions  
Active ozone  
Photocatalytic titanium oxidation

Product appearance: Air detoxifier device

### **TEST METHOD & VALIDATION**

Test method: EN 17272:2020  
Chemical disinfectants and antiseptics – Methods of airborne room disinfection by automated process – Determination of bactericidal, mycobactericidal, sporicidal, fungicidal, yeasticidal, virucidal, and phagocidal activities

Scope: Efficacy test

Titration method: Quantal tests (TCID<sub>50</sub> method)

Inactivation method: Dilution in ice-cold maintenance media (growth media with 2% serum)

Test carrier: Stainless less disc 301, grade 2B, 4 cm in diameter, 1.2 mm gauge

Modifications: Only one test carrier per test condition was tested instead of three as this a screening test requested by the client

## **EXPERIMENTAL CONDITIONS**

Date of test:	15 June 2022
Enclosure volume:	33.3 m <sup>3</sup>
Test item-carrier distance:	2.6 m
Test item position:	Centre of the enclosure, placed on the floor
Dispersion time:	15 minutes 30 minutes 60 minutes
Aerosolization disinfection contact (ADC) time:	Same as dispersion time
Initial test temperature:	(20 ± 2) °C
Initial relative humidity:	50 – 75%
Interfering substance:	Clean condition (0.3 g/L bovine serum albumin)
Test organism / passage no.:	Human coronavirus (HCoV-229E), strain 229E, ATCC VR-740 / P16
Cell line / passage no.:	MRC-5 ATCC CCL-171 / P12
Growth medium:	DMEM supplemented with 10% foetal bovine serum and 1% penicillin-streptomycin
Incubation temperature:	(36 ± 1) °C, 5% CO <sub>2</sub>
Incubation period:	2 to 5 days



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Test organism: Human coronavirus (HCoV-229E) ATCC VR-740

Survival control, T	T: $6.50 \pm 0.00$
Cytotoxicity effect, CE	CE: $1.50 \pm 0.00$

Concentration / Dispersion Time / ADC Time	Efficacy Test, Ne	Reduction, lg R = lg T – lg Ne
100% / 15 minutes / 15 minutes	Ne: $5.00 \pm 0.38$	lg R: $1.50 \pm 0.38$ %R: 96.838%
100% / 30 minutes / 30 minutes	Ne: $4.50 \pm 0.00$	lg R: $2.00 \pm 0.00$ %R: 99.000%
100% / 60 minutes / 60 minutes	Ne: $3.88 \pm 0.37$	lg R: $2.63 \pm 0.37$ %R: 99.763%



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