TR No.: TR-22-0288 TR Date: 23 June 2022

Test Method: EN 17272:2020 Client: OKA International Sdn. Bhd.

Test Item Name: OkaAir Detoxifier 8 in 1 v3 & v3 Compact

Lab ID: O002-22-002

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: 0002-22-002

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 (TCID₅₀ 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

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Lab ID: O002-22-002

EXPERIMENTAL CONDITIONS

Date of test: 15 June 2022

Enclosure volume: 33.3 m³

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% CO₂

Incubation period: 2 to 5 days



Innovation for Healthy Lifestyle

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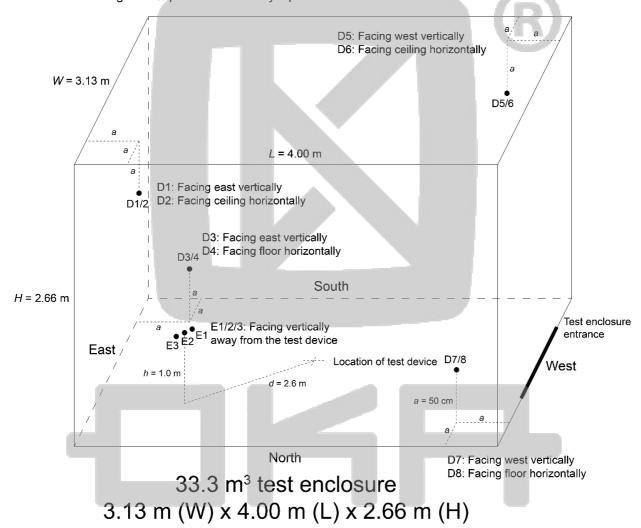
Client: OKA International Sdn. Bhd. Test Item Name: OkaAir Detoxifier 8 in 1 v3 & v3 Compact

Lab ID: O002-22-002

TEST RESULTS

For each test carrier, the log reduction ($\lg R$) is calculated using the formula $\lg R = T - Ne$, in which:

- T is the Ig TCID₅₀ per mL of recovery liquid in the survival control,
- Ne is the Ig TCID₅₀ per mL of recovery liquid at the end of the contact time.



Innovation for Healthy
Lifestyle

TR No.: TR-22-0288 TR Date: 23 June 2022 Test Method: EN 17272:2020

Client: OKA International Sdn. Bhd.

Test Item Name: OkaAir Detoxifier 8 in 1 v3 & v3 Compact Lab ID: O002-22-002

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

Survival control, T	T: 6.50 ± 0.00	
Cytotoxicity effect, CE	CE: 1.50 ± 0.00	

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

