

Test Report No.: VX-TR-21-1170

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**DETERMINATION OF THE VIRUCIDAL ACTIVITY (EN 14476) OF
ADPHOCAT 99**

Lab No.: VX-203-21-0002

Sample Name: **Adphocat 99**

Method: EN 14476:2013+A2:2019 (E)

Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of virucidal activity in the medical area – Test method and requirements (phase 2, step 1)

Client: CSC Screen Process Supplies Sdn. Bhd.
No. 14, Jalan Bertam 5, Taman Daya
81100 Johor Bahru, Johor
Malaysia

Sample Receipt Date: 08 September 2021

Report Date: 07 December 2021

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Kuala Lumpur, 07 December 2021

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Dr Syazani Suhaimi
Microbiologist

Materials and Method

Quantitative suspension test for the evaluation of virucidal activity in the medical area according to EN 14476:2013+A2:2019 (E)

1. **Testing laboratory identification** Viroxy Sdn. Bhd.
6th Floor, Menara RKT
50300 Kuala Lumpur
Malaysia
2. **Sample identification**
 - 2.1 Sample name: Adphocat 99
 - 2.2 Batch no.: Not specified
 - 2.3 Product appearance: White, opaque solution
 - 2.4 Manufacturer: CSC Screen Process Supplies Sdn. Bhd.
No. 14, Jalan Bertam 5, Taman Daya
81100 Johor Bahru, Johor
Malaysia
 - 2.5 Active substances: Not specified
 - 2.6 Sample receipt date: 08 September 2021
 - 2.7 Storage conditions: Room temperature
 - 2.8 Product diluent: Distilled water
3. **Experimental conditions**
 - 3.1 Testing period: 25 November – 05 December 2021
 - 3.2 Test organism(s): *Human coronavirus*, strain 229E, ATCC VR-740
 - 3.3 Concentration/contact time: 100.00 %* / 1 and 5 minutes
 - 3.4 Loading: 0.30 g/L bovine albumin solution
 - 3.5 Test temperature: 20 °C ± 1 °C
 - 3.6 Incubation period: 5 days, 36 °C ± 1 °C

4. Test method and its validation

- 4.1 Testing method: Quantal test
- 4.2 Inactivation method: Immediate dilution
 Molecular sieving using MicroSpin™ S 400 HR

The results of validation test A, B, and C proved the viability of the method in all cases. ✓

5. Test results

The results are stated in Tables A and B.

6. Conclusion

Adphocat 99 showed the required viral reduction of $\geq 4.0 \log_{10}$ against test strain *Human coronavirus* ATCC VR-740 in accordance with EN 14476:2013+A2:2019 (E) at 100.00 %* concentration after 1 and 5 minutes under the stated condition. According to the simple acceptance decision rule†, there is a minimal risk of false acceptance.

Kuala Lumpur, 07 December 2021



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7. Note

Virucidal activity – the capability of a product to produce a reduction in the number of viable viruses belonging to reference strains under defined conditions by at least 4 orders (10^4).

$R = V_c/N_a$ = the reduction in viability, or $\lg R = \lg V_c - \lg N_a$

* 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.