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Issue No.: 1

Test report No. D75-4.1/2014

DETERMINATION OF VIRUCIDAL (EN 14476) ACTIVITY OF THE  
PRODUCT **DENTIRO® Wipes Soaking Liquid**

Sample ID: D75/2014

Sample name: **DENTIRO® Wipes Soaking Liquid**

Client: OCC Switzerland, Oro Clean Chemie AG, Allmendstrasse 21, 8320 Fehraltorf, Switzerland

Producer: OCC Switzerland, Oro Clean Chemie AG, Allmendstrasse 21, 8320 Fehraltorf, Switzerland

Sampling point: OCC Switzerland, Oro Clean Chemie AG, Allmendstrasse 21, 8320 Fehraltorf, Switzerland

Page: 1

From pages: 4

Incoming date:  
7.5.2014

Delivery date:  
20.10.2014

Hodonín, 20.10.2014



Zuzana Matusková, Head of Laboratory

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Description: Testing the efficacy of chemical disinfectants and antiseptics

Sample ID: D75/2014

Rep No: 89

Sample name: **DENTIRO® Wipes Soaking Liquid**

Sampled: by client

Sampling point: OCC Switzerland, Oro Clean Chemie AG, Allmendstrasse 21, 8320 Fehraltorf, Switzerland

Client: OCC Switzerland, Oro Clean Chemie AG, Allmendstrasse 21, 8320 Fehraltorf, Switzerland

Batch No: 9936

Sampling date: 5.5.2014

Sample delivered: 7.5.2014

Testing date: 13.6. – 19.6.2014

Delivered amount: 5 l

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Subject of testing:

Determination of virucidal activity of the product.

Identification of the sample:

Name of the product:

**DENTIRO® Wipes Soaking Liquid**

Batch number:

9936

Date of manufacture:

10.04.2014

Expiry date:

04/2017

Manufacturer:

OCC Switzerland, Oro Clean Chemie AG, Allmendstrasse 21, 8320 Fehraltorf, Switzerland

Incoming date:

7.5.2014

Storage conditions:

at room temperature, in the dark, area with restricted access

Active compounds and concentrations in 100 g:

CAS 64-17-5 Ethanol 31.3 g

CAS 67-63-0 2-Propanol 16.7 g

Experiment conditions:

**Testing of disinfecting efficiency of chemical disinfecting and antiseptic agents by suspension method SOP-M-19-00 (EN 14476)**

Period of analysis:

13.6. - 19.6.2014

Test temperature:

20 °C ± 1 °C

Method of titration:

virus titration on monolayers of cells on microtiter plates

Appearance of the products:

colourless liquid

Test concentration:

100% (concentrated)\*

Contact time:

1, 2, 5 and 60 min

Interfering substances:

0.3 g/l BSA (clean conditions)

Reference product:

Formaldehyde 36 – 38% solution p.a., CAS: 50-00-0, Batch No: K44006603245, expiry date: 30.11.14

Test virus:

*Murine norovirus (MNV)* strain S99, RVB-651 (2<sup>nd</sup> passage)

Cell lines:

RAW 264.7 *Murine macrophage* cell line

Incubation:

36 °C ± 1 °C, 5 % CO<sub>2</sub>, 96 h, and additional period of 24 h or 48

hours. After incubation, the titre infectivity is calculated according to Spearman-Kärber method.

Preparation of the test

1. Determination of the number of the microorganisms CFU/ml in the product
2. Preparation of cell culture
3. Preparation of the test virus suspension
4. Test of viral infectivity
5. Virus titration with interfering substance
6. Cytotoxicity of the product
7. Reference virus inactivation test
8. Test procedure for virucidal activity of product

Note:

Virucidal activity – the capability of a product to produce a reduction in the number of infectious virus particles under defined conditions by at least 4 (lg) orders.

\*The product is tested at a concentration of 97% (modified method), as some dilution is always produced by adding the test organisms and the interfering substance.

The standard:

EN 14476 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) August 2013

Description: Testing the efficacy of chemical disinfectants and antiseptics

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Interpretation:

Results of tests are in Tabs.

According to EN 14476 the tested concentrated\* product **DENTIRO® Wipes Soaking Liquid**, batch No. 9936, in contact times 1, 2, 5, 30 and 60 min under clean conditions at temperature  $20\text{ °C} \pm 1\text{ °C}$  proved by the method of virus titration on monolayers of cells on microtitre plates to reduce the number of infectious *Murine norovirus* strain S99, RVB-651, particles under defined conditions by at least 4 (lg) orders.

\*The product is tested at a concentration of 97% (modified method), as some dilution is always produced by adding the test organisms and the interfering substance.

Conclusion:

The product **DENTIRO® Wipes Soaking Liquid** is capable of reducing the number of infectious *Murine norovirus* strain S99, RVB-651, particles under defined conditions to the declared values and, consequently, may be called virucidal on *Murine norovirus*.

20.10.2014, Hodonín

