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TESTING LABORATORY
MO/IEC 17025:2017

# **Stadsing A/S - TEST RESULTS**

CLIENT: Stadsing A/S

ADDRESS: Østre Fælledvej 13, 9400 Nørresundby, DK

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Test Report: BS EN 14476:2013 + A2:2019

## Test Report: BS EN 14476:2013 + A2:2019 Chemical disinfectants and

antiseptics – Quantitative suspension test for the evaluation of virucidal activity in the medical area-Test method and requirement s (Phase 2/Step 1)

Report Registration No:	MDCRT/14476R/1265-001
Product Name:	WeClean® PRO Penitol Wipes, Surface Disinfection
Manufacturer:	Stadsing A/S
Manufacturer Address:	Østre Fælledvej 13, 9400 Nørresundby, Denmark
Trademark:	WeClean® PRO Penitol
Sample Piece:	2 pieces
Sample Arrival Date:	25.06.2020
Sample Lot No:	200620
Package Type:	PP

Test Method and its validation		
Method	1 part interfering substance + 1 part virus suspension + 8 parts biocide were mixed and incubated at the indicated contact temperature for the indicated contact times. Assays were validated by a cytotoxicity control, interference control, neutralisatic control and a formaldehyde internal standard.	
Neutralisation	Dilution-neutralisation/gel filtration Eagles Minimum Essential Medium + 5.0% v/v foetal bovine serum at 4°C	

	<b>Experimental Conditions</b>
Period of analysis	26 Jun 2020 to 03 July 2020
Product diluents used	Sterile distilled water
Product test concentrations	7.5% v/v; 5.0%; 2.5% v/v
Appearance product dilutions	No changes noted- stable
Appearance in test mixture	Turbidity and sedimentation observed at all concentrations
Contact times (minutes)	$5 \pm 10$ s
Test temperature	20°C + 1°C
Interfering substances	0.3g/l bovine albumin
Temperature of incubation	37°C + 1°C + 5% CO2
Identification and passage (P) of virüs	Vaccinia virus VR-1549 Elstree strain (P10)
Identification and passage (P) of cells	Vero Cells (P 30) (Vaccinia Virus)



**Rapor No** : MDCRT/14476R/1264-**00**1



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## PROTOCOL SUMMARY

The basic virucidal efficacy test is set up with three concentrations of test product solution and a 5-minute contact time. Virus is exposed to disinfectant in 24-well plates, then neutralised, serially diluted and virus titred in 96-well tissue culture plates to determine the tissue culture infectious dose50 (TCID50) of surviving virus. Vaccinia virus VR-1549 Elstree strain / Vero cells are assayed in parallel in each test. TCID50 is determined by the method of Karber<sup>1</sup>.

# **Cytotoxicity control**

The test product solution is measured for its effects on the host cells used to propagate the virus, to determine the sensitivity of the assay.

## **Interference control**

The effect of the cells after treatment of the test product solution are verified to ensure the cells can show susceptibility for virus infection. This is compared against cells that have not been treated with test product.

# Disinfectant suppression control VS1

Virus is added to the highest concentration of test product solution and then the mixture immediately removedand neutralised. The neutralised virus titre is then determined to assess the efficiency of the neutralisation procedure.

# Disinfectant suppression control VS2

Internal control which adds virus to neutralised test product solution to assess the efficiency of the neutralisation procedure.

# **No Column Control**

Internal control on the highest contact time to assess any impact of the Microspin<sup>™</sup> S 400 HR columns.

# Virus recovery control

Virus titre is determined for virus in contact with sterile distilled water at t=0, t=5 and at t=15. The virus titre after 5 minutes is then compared to the recovery of disinfectant-treated virus to measure the log reduction in virus titre. The virus titre at 15 minutes is compared to the reference virus inactivation control.

# Reference virus inactivation control

Virus is exposed to 0.7% W/V formaldehyde and the recovery of virus determined by TCID50 after 5 and 15 minutes, in order to assess that the test virus has retained reproducible biocide resistance. In addition, the formaldehyde cytotoxicity of neutralised formaldehyde is determined, to measure assay sensitivity. 1Kärber, G.: Beitrag zur Kollektiven Behandlung Pharmakologischer Reihenversuche. Arch. Exp. Path. Pharmak. 162 (1931): 480-487.



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## **CONCLUSION**

# Verification of the methodology

A test is only valid if the following criteria are fulfilled:

- a) The titre of the test suspension of at least 10<sup>8</sup> TCID<sub>50</sub> /ml is sufficiently high to at least enable a titre reduction of 4 Ig to verify the method.
- b) Detectable titre reduction is at least  $4 \log_{10}$ .
- c) Difference of the logarithmic titre of the virus control minus the logarithmic titre of the test virus in the reference inactivation test is between:
  - Between 0.5 and 2.5 after 30 min and between 2.0 and 4.5 after 60 min for poliovirus
  - Between 3.0 and 5.0 after 30 min and between 3.5 and 5.5 after 60 min for adenovirus
  - Between 1.0 and 3.0 after 30 min and between 2.0 and 4.0 after 60 min for murine norovirus
  - Between 0.0 and 2.0 after 30 min and between 0.5 and 2.5 after 60 min for parvovirus
  - Between 0.75 and 3.5 after 5 min and between 2.0 and 4.0 after 15 min for Vaccinia virüs
- d) Cytotoxicity of the product solution does not affect cell morphology and growth or susceptibility for the test virus in the dilutions of the test mixtures which are necessary to demonstrate a 4 log<sub>10</sub> reduction of the virus.
- e) The interference control result does not show a difference of  $\leq 1.0 \log_{10}$  of virus titre for test product treatedcells in comparison to the non-treated cells.
- Neutralisation validation. This is called the disinfectant suppression test in this protocol. The disinfectant was neutralised by column chromatography through an Illustra Microspin S-400 HR column to achieve the best possible neutralisation available for this test. The difference for virus is greater than 0.5 log<sub>10</sub> indicating rapid irreversible virucidal activity of the disinfectant by dilution at a concentration of 7.5% v/v for VS1. This neutralisation validation has been verified by VS2, which shows the product has been successfully neutralised.

According to EN 14476:2013 + A2:2019, ProMast Clean CLN-04134 POSSESSES VIRUCIDAL activity at a concentration of 5.0% v/v as tested after 5 MINUTES at 20°C under CLEAN conditions (0.3 g/l bovine albumin) against Vaccinia virus VR-1549 Elstree strain / Vero cells.

The cytotoxicity of the product has prevented at 4.0 log reduction being observed at 7.5% v/v.

This product therefore is effective against all enveloped viruses as defined in EN 14476:2013 + A2:2019. This therefore includes all coronaviruses and SARS-CoV-2.

Signed

Müjde Burcu Hancı Bioengineer Msc. Test Group Responsible

M. Kur

MEDİCERT ULUSLARARASI ÜRÜN VE SİSTEM BELGELENDIRME BAĞIMSIZ DENETİM VE EĞİTİM HİZMETLERLITD ŞTİ.
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Rapor No : MDCRT/14476R/1264-001

