Test report n° 2100065/01_03

A.L FILTER EAD
BULEVARD HRISTO BOTEV 1
RUSE BULGARIA (BG)

Test information	
MATERIAL	Filter media
ITEM	**Treated sample: Color brown** **Untreated sample: Color white** **Additive/treatment: CuO 0.85%** 
METHOD	**ISO 18184:2019 "Textiles – Determination of antiviral activity of textile products"°**
Date of receipt	21 April 2021
Samples	• Treated sample: 20 x 20 mm; • Untreated sample: 20 x 20 mm; • All samples were sterilized at 121 °C for 15 minutes; • Volume of test inocululm: 200 uL.
Conservation	Room temperature
Test temperature	25°C ± 1°C
Incubation temperature	37°C ± 1°C
Viral strain	**A/California/04/2009 (H1N1)**
Permissive host cell line	MDCK
Contact time	6H

Calculation of antiviral activity

Antiviral activity is calculated with the following formula:

$$M_v = \lg (V_a) - \lg (V_c)$$

where

M_v is the evaluation of antiviral activity

$\lg (V_a)$ logarithm of the mean of TCID50 of the three replicates at time T0 detected on the control

$\lg (V_c)$ logarithm of the mean of TCID50 of the three replicates at time T detected on the treated sample

Log $TCID_{50}$ inoculum: 6.5

Control test					
	Average Log $TCID_{50}$	$TCID_{50}$ /1mL	Test valid if	Results	
Untreated sample	3.75	$10^{3.75}$	(Lg $TCID_{50}$ Untreated - Lg $TCID_{50}$ Treated) < 0.5		
Treated sample	3.58	$10^{3.58}$		0.17	Valid

Test results					
	Time	Average Log $TCID_{50}$ Lg (V_a)	$TCID_{50}$ / 1 mL	M	Test valid if
Untreated sample	T0	5.08	$10^{5.08}$	/	/
	T6	3.67	$10^{3.67}$	1.42	M<1.0

VISMEDERI TEXTYLE

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	Time	Average Log $TCID_{50}$ Lg (V_c)	$TCID_{50}$ /1 mL	M_v	% reduction versus T0
Treated sample	T6	2.92	$10^{2.92}$	2.17	99.31

This Test Report refers only to the sample tested; the name and description of the sample are declared by the Customer.
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° Test in service (same Group).

Prato, 10 June 2021

End of test Report

The Responsible,

GIOVANNI MICHELI
10.06.2021
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UTC

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