


Test report n° 2100064/01\_03

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

<b>Test information</b>	
MATERIAL	Filter media
ITEM	<p><b>Treated sample: Color brown</b>  <b>Untreated sample: Color white</b>  <b>Additive/treatment: CuO 0.85%</b></p> 
METHOD	<b>ISO 18184:2019 "Textiles – Determination of antiviral activity of textile products"</b>
Date of receipt	21 April 2021
Samples	<ul style="list-style-type: none"> <li>• Treated sample: 20 x 20 mm;</li> <li>• Untreated sample: 20 x 20 mm;</li> <li>• All samples were sterilized at 121 °C for 15 minutes;</li> <li>• Volume of test inoculum: 200 uL.</li> </ul>
Conservation	Room temperature
Test temperature	25°C ± 1°C
Incubation temperature	37°C ± 1°C
Viral strain	<b>SARS-CoV-2_UK MUTANT</b> (Lot: VMR_SARSCOV2UKMUT_14484_VMRISOLATE_VEROE6_090321_C6)
Permissive host cell line	VERO E6
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 TCID<sub>50</sub> of the three replicates at time T<sub>0</sub> detected on the control

$\lg (V_c)$  logarithm of the mean of TCID<sub>50</sub> of the three replicates at time T detected on the treated sample

Log TCID<sub>50</sub> inoculum: 6.5

Control test					
	Average Log TCID <sub>50</sub>	TCID <sub>50</sub> /1mL	Test valid if	Results	
Untreated sample	4.67	10 <sup>4.67</sup>	(Lg TCID <sub>50</sub> Untreated - Lg TCID <sub>50</sub> Treated) < 0.5		
Treated sample	4.50	10 <sup>4.50</sup>		0.17	Valid

### Test results

	Time	Average Log TCID <sub>50</sub> Lg (V <sub>a</sub> )	TCID <sub>50</sub> / 1 mL	M	Test valid if
Untreated sample	T0	6.00	10 <sup>6.00</sup>	/	/
	T6	5.33	10 <sup>5.33</sup>	0.67	M<1.0



	Time	Average Log TCID <sub>50</sub> Lg (V <sub>c</sub> )	TCID <sub>50</sub> /1 mL	M <sub>v</sub>	% reduction versus T0
Treated sample	T6	4.08	10 <sup>4.08</sup>	1.92	98.80

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,

