

Test report n° 20200050/04



Test information	
MATERIAL	COATED FABRIC
ITEM	<b>Customer: SafeGroup – Reference V20102 – SafeGroup Antimicrobial Textile Coating</b>
METHOD	<b>ISO 18184:2019 “Textiles – Determination of antiviral activity of textile products”</b>
Date of receipt	23 November 2020
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_COV2019 ITALY/INMI1</b>
Permissive host cell line	VERO E6
Contact time	15 min – 2h – 6h – 24h



**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 T0 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	3.67	10 <sup>3.67</sup>	(Lg TCID <sub>50</sub> Untreated - Lg TCID <sub>50</sub> Treated) < 0.5		
Treated sample	3.42	10 <sup>3.42</sup>		0.25	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	4.42	10 <sup>4.42</sup>	/	/
	T15'	4.33	10 <sup>4.33</sup>	0.08	M<1.0
	T2	3.50	10 <sup>3.50</sup>	0.92	
	T6	2.25	10 <sup>2.25</sup>	2.17	
	T24	1.50	10 <sup>1.50</sup>	2.50	



	Time	Average Log TCID <sub>50</sub> Lg (V <sub>c</sub> )	TCID <sub>50</sub> /1 mL	M <sub>v</sub>
Treated sample	T15'	4.00	10 <sup>4.00</sup>	0.42 [-61,98%]
	T2	3.33	10 <sup>3.33</sup>	1.08 [-91,87%]
	T6	2.17	10 <sup>2.17</sup>	2.25 [-99,44%]
	T24	1.50	10 <sup>1.50</sup>	2.50 [-99,88%]

Antiviral efficacy	
3.0 > M <sub>v</sub> ≥ 2.0	Good effect
M <sub>v</sub> ≥ 3.0	Excellent effect

This Test Report refers only to the sample tested; the name and description of the sample are declared by the Customer. This test report may only be reproduced in full; partial reproduction must be authorized with written approval by the Laboratory. \*Test in service (same Group).

Prato, [REDACTED]

Test Report  
 GIOVANNI  
 MICHELI  
 Responsabile,  
 2020-05-20,  
 20:20:49  
 UTC

