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Test report n° 20200050/03

[redacted]

Test information	
MATERIAL	COATING
ITEM	**Customer: SafeGroup – Reference: V20103 – Sample SafeGroup Antimicrobial Ceramic Coating** 
METHOD	**ISO 21702:2019 "Measurement of antiviral activity on plastics and other non porous surfaces"**
Date of receipt	23 December 2020
Samples	• Treated sample: 50 x 50 mm^2, 0.71 mm thick; • Untreated sample: 50 x 50 mm^2, 1 mm thick; • Cover film: polypropylene film 40 x 40 mm^2, thickness 0.10 mm • All samples were rinsed with sterile distilled water; • Volume of test inoculuIm: 400 uL.
Conservation	Room temperature
Test temperature	25°C ± 1°C
Incubation temperature	37°C ± 1°C
Viral strain	**SARS-CoV-2_COV2019 ITALY/INMI1**
Permissive host cell line	VERO E6
Contact time	2H - 6h - 24h

Calculation of antiviral activity

Antiviral activity is calculated with the following formula:

$$R = Ut - At$$

where

R is the evaluation of antiviral activity

Ut is the mean of log TCID50/cm^2 of the 3 untreated samples at time Tx

At is the mean of log TCID50/cm^2 of the 3 treated samples at time Tx

Log $TCID_{50}$ inoculum: 6.50

Cytotoxicity test						
	Media Log $TCID_{50}$	$TCID_{50}$ /1 ml	S ($TCID_{50}$ / ml)	Test valid if	Results	
Negative control	3.58	$10^{3.58}$	Sn = $10^{3.58}$	n/a	n/a	n/a
Untreated sample	3.33	$10^{3.33}$	Su = $10^{3.33}$	$\|Sn-Su\| \leq 0.5$	0.17	Valid
Treated sample	3.17	$10^{3.17}$	St = $10^{3.17}$	$\|Sn-St\| \leq 0.5$	0.42	Valid

Test results

	Time	Average Log $TCID_{50}$	$TCID_{50}$ /1 ml	N ($TCID_{50}$/cm^2)	Ut	R |Ut-At|	Test valid if result is between
Untreated sample	T0	4.75	$10^{4.75}$	3.51×10^5	n/a	n/a	$2.5 \times 10^5 - 1.2 \times 10^6$ ($TCID_{50}$/cm^2)
	T2	3.67	$10^{3.67}$	2.90×10^4	4.46	n/a	n/a
	T6	3.17	$10^{3\,17}$	9.17×10^3	3.96	n/a	n/a
	T24	2.75	$10^{2.75}$	3.51×10^3	3.55		

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	Time	Average Log $TCID_{50}$	$TCID_{50}$ /1 ml	N ($TCID_{50}/cm^2$)	At	R |Ut-At|	[% reduction versus T0]
Treated Sample	T2	3.08	$10^{3.08}$	7.57×10^3	3.88	0.58	97.86 %
	T6	3.00	$10^{3.00}$	6.25×10^3	3.80	0.16	98.22 %
	T24	2.33	$10^{2.33}$	1.35×10^3	3.13	0.42	99.62%

Th s Test Report refers on y to the samp e tested; the name and descr pt on of the samp e are dec ared by the Customer.
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° Test n serv ce (same Group).

Prato, 19 January 2021

End of test Report

The Responsible,

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MICHELI
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