

Test report n° 20200003/01

POLYGIENE AB
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Test information	
MATERIAL	FABRIC
ITEM	PGVO0014 –VralOff Treated
METHOD	ISO 18184:2019 “Textiles – Determination of antiviral activity of textile products”
Date of receipt	12 August 2020
Samples	<ul style="list-style-type: none">• 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 inoculum: 200 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	2 h – 6 h

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 TCID₅₀ inoculum: 6.5

Control test					
	Average Log TCID ₅₀	TCID ₅₀ /mL	Test valid if	Results	
Untreated sample	4.08	10 ^{4.08}	(Lg TCID ₅₀ Untreated - Lg TCID ₅₀ Treated) < 0.5		
Treated sample	3.67	10 ^{3.67}		0.41	Valid

Test results

	Time	Average Log TCID ₅₀ Lg (V _a)	TCID ₅₀ / 1 mL	M	Test valid if
Untreated sample	T0	4.58	10 ^{4.58}	/	/
	T2	3.71	10 ^{3.71}	0.87	M<1.0
	T6	3.62	10 ^{3.62}	0.96	



	Time	Average Log TCID ₅₀ Lg (V _c)	TCID ₅₀ / mL	M _v
Treated sample	T2	1.83	10 ^{1.83}	2.75 [-99,82%]
	T6	1.75	10 ^{1.75}	2.83 [-99,85%]

Antiviral efficacy	
3.0 > M _v ≥ 2.0	Good effect
M _v ≥ 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.
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 ° Test in service (same Group).

04 September 2020

End of test Report

The Responsible,



