

Test report n° 2100150/01

POLYGIENE AB
STYRMANSGATAN 2
21118 MALMÖ - SWEDEN (SE) - SE

Test information	
MATERIAL	Polyester, thermoformed
ITEM	Customer: Airinum Treated sample: AAM treated Untreated sample: AAM reference Additive/treatment: not specified 
METHOD	ISO 18184:2019 "Textiles – Determination of antiviral activity of textile products"
Date of receipt	30.11.2021
Samples	• Treated sample: 20 x 20 mm; • Untreated sample: 20 x 20 mm; • All samples were sterilized by exposure to UV-C rays; • 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	2h-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 TCID₅₀ inoculum: 7.00

Control test				
	Average Log TCID ₅₀ /mL	Test valid if	Results	
Untreated sample	4.04	(Lg TCID ₅₀ Untreated – Lg TCID ₅₀ Treated) < 0.5	0.00	Valid
Treated sample	4.04			

Test results

	Time	Average Log TCID ₅₀ /mL Lg (V _a)	M	Test valid if
Untreated sample	T0	5.79	n/a	n/a
	T2	4.92	0.87	M<1.0
	T6	4.84	0.95	



	Time	Average Log TCID ₅₀ /mL Lg (V _c)	M _v	% reduction versus T0
Treated sample	T2	1.50	4.29	99.99
	T6	1.50	4.29	99.99

Antiviral efficacy	
$3.0 > M_v \geq 2.0$	Good effect
$M_v \geq 3.0$	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).

Prato, 14 January 2021

End of test Report

The Responsible,

