

Test report n° 2500572

Test information	
MATERIAL	Air purification filter
DENOMINATION	Treated sample: Trattato con 3AAA Untreated sample: Non trattato
TREATMENT	3AAA Active Antivirus Antibacterial
METHOD	ISO 20743:2021 "Textiles - Determination of antibacterial activity on textile products" Absorption method
Date of receipt	13/03/2025
Samples	Samples 0.40 g $\pm$ 0.05 Volume inoculated for the test: 200 μ l
Period of analysis	25/03/2025-28/03/2025
Conservation	Room temperature
Incubation temperature	37°C $\pm$ 1°C
Bacterial strain	Staphylococcus aureus – Klebsiella pneumoniae
Contact time	24h



Follows test report n°2500572

Test results

Test	Method	Units of Measurement	Result
Antibacterial activity against <i>Klebsiella pneumoniae</i> ATCC 4352	ISO 20743:2021		
Incubation time		Ore	24h
Average number of bacteria on untreated sample at time 0 (C0)		UFC/campione	770000
Average number of bacteria on treated sample at time 0 (T0)		UFC/campione	630000
Average number of bacteria on untreated sample at time 24h (C24)		UFC/campione	256000000
Average number of bacteria on treated sample at time 24h (T24)		UFC/campione	268000
Antibacterial activity $A = (\log C24 - \log C0) - (\log T24 - \log T0)$			2.89
A% (Calculated with respect to C24 $((C24 - T24 / C24) * 100)$)			99.9%



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Test	Method	Units of Measurement	Result
Antibacterial activity against <i>Staphylococcus aureus</i> ATCC 6538	ISO 20743:2021		
Incubation time		Ore	24h
Average number of bacteria on untreated sample at time 0 (C0)		UFC/campione	550000
Average number of bacteria on treated sample at time 0 (T0)		UFC/campione	500000
Average number of bacteria on untreated sample at time 24h (C24)		UFC/campione	280000000
Average number of bacteria on treated sample at time 24h (T24)		UFC/campione	680000
Antibacterial activity $A = (\log C_{24} - \log C_0) - (\log T_{24} - \log T_0)$			2.57
A% (Calculated with respect to C24 $((C_{24} - T_{24} / C_{24}) * 100)$			99.7%

This test report refers only to the sample tested; the name and description of the sample are stated by the customer. This test report may only be reproduced in full; partial reproduction must be authorised with the written approval of the Laboratory.

End of Test Report

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Siena, 01 April 2025

Il Responsabile
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Iscrizione Ordine dei biologi della
Toscana e dell'Umbria
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