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ANALYTICAL REPORT

Client Information

Eurofins Medical Device Testing 2425 New Holland Pike Lancaster USA +1 717 725 8250 aditianand@eurofinsus.com For the attention of Aditi Anance

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Sample Information						
Order Code: EUAA70-00009654						
Reception Date:	9-Dec-2020					
Analysis Starting Date:	9-Dec-2020					
Analysis Ending Date:	21-Dec-2020					
Sample code Nr.	560-2020-00009589					
ample described as: Masks						
Requirements and decision rule						
Customer requirements:	Customer requirements: No requirements					
Decision Rule:	ision Rule: Not applicable.					
Information provided by the customer*						
Client Reference:	lient Reference: DMF4L					
Sample Description:	tion: On behalf of: Breathh Inc./Lutema					
Purchase Order Number:						
Batch	BLR139					



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SAMPLE PICTURE





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CONCLUSION:

TEST PROPERTY	PASS	FAIL	REMARKS		
 Determination of face mask materials efficiency to penetration by particulates (latex spheres) ASTM F2299 / F2299M - 03(2017) 					
A - Mack					
A - Mask			REFER RESULT		

Remark: Test has been performed as per application request



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COMPONENT LIST:

COMPONENT ID	COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS
CUST 01	A - Mask	Mask	Pink	



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MASKS TESTING	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
Analyses on:A - Masl	ĸ				
 Determination of face mask materials efficiency to penetration by particulates (latex spheres) ASTM F2299 / F2299M - 03(2017) 					Analysis Ending Date: 21/12/2020

Filtration Efficiency

Particle diameter: 0.1 μm \pm 0.015 μm Complete test data reported at Annex.

99.88 %



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Signed for and on behalf of Eurofins Textile Testing Spain:



Report electronically validated by

Maria Jesus Martinez Puig Chemical Lab manager

EXPLANATORY NOTE

- Test not covered by ENAC accreditation scope
- Test is subcontracted within Eurofins group and is accredited
- Test is subcontracted within Eurofins group and is not accredited
- Test is subcontracted outside Eurofins group and is accredited
- □ Test is subcontracted outside Eurofins group and is not accredited

N/A = Not Applicable

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Eurofins General Sales Terms and Conditions Applied.

Results obtained refer only to samples, products or material received in Laboratory, as described in section "Sample information" and tested in conditions shown in present report.

Test uncertainties not reported are at customer disposal, for those tests in which it is possible to evaluate the test uncertainty.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2, which for a normal distribution provides a level of confidence of approximately 95%.

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If you happen to have any comments, please do it by sending email to textile_spain@eurofins.com and referring to this report number.

End Of Report



DETERMINATION OF THE INITIAL EFFICIENCY OF MATERIALS USED IN MEDICAL FACE MASKS TO PENETRATION BY PARTICULATES USING LATEX SPHERES

Test Method: ASTM F2299 / F2299M - 03(2017)

Number of test specimens: 5

Thickness: 0.59 mm

Unit area weight: 97.3 g/m²

Exposed specimen area: 78.5 cm²

Size of test specimen was facing towards the challenge aerosol: Inner

Face velocity: 6 cm/s

Pressure drop: 0.0 mmH₂O

Particle diameter: 0.1 µm ± 0.015 µm

Conditioning and test conditions: T^a between 18°C and 24°C. HR% between 30 and 50 % Hr

Pretreatment techniques used: No

Test duration: Three one-minute counts per specimen

Controls used: Three one-minute control counts were performed, without testing sample, before and after each 5 specimens. Control counts are averaged.

Testing date: 09/12/2020

Deviation from the stated method: Test aerosol is non-neutralized according to the FDA guidance document on surgical face masks.

Test results:

Filtration Efficiency (%)			
99,88			
99,89			
99,89			
99,87			
99,87			
99,88			
0,01			