

Analytical Report Nr.

AR-21-YL-006234-01

Sample code Nr.

560-2021-00006219

Date

08/06/2021

ANALYTICAL REPORT

Client Information

Eurofins Cosmetics and Personal Care Italy Srl
Lungotevere A. da Brescia, 11
ROMA ITALY

StaffCOSME@eurofins.com

For the attention of Dept Reports & Sample Registration

Sample Information

Order Code: EUAA70-00012232
Reception Date: 26-May-2021
Analysis Starting Date: 26-May-2021
Analysis Ending Date: 8-Jun-2021
Sample code Nr. 560-2021-00006219
Sample described as: Masks

Requirements and decision rule

Customer requirements: No requirements
Decision Rule: Not applicable.

Information provided by the customer*

Client Reference: 2.2 - U-mask model 2.2
Sample Description: U-Earth Biotech Ltd
Purchase Order Number:

Batch 012

Analytical Report Nr.

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SAMPLE PICTURE

Analytical Report Nr.

AR-21-YL-006234-01

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08/06/2021

CONCLUSION:

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

Remark: Test has been performed as per application request

Analytical Report Nr.

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Sample code Nr.

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COMPONENT LIST:

COMPONENT ID	COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS
CUST 01	Mask	Mask	Green/Black	---

Analytical Report Nr.

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08/06/2021

MASKS TESTING**CAS No.****RESULTS****UNC.****LOQ****GUIDELINES****Analyses on:Mask****◆ Determination of face mask materials efficiency to penetration by particulates (latex spheres)**

Analysis Ending Date: 08/06/2021

ASTM F2299 / F2299M - 03(2017)

Results

See annex

-

Particle diameter: 0.1 µm

Analytical Report Nr.

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Signed for and on behalf of Eurofins Textile Testing Spain:
Eurofins Textile Testing Spain, S.L.U.
C/ Germán Bernácer, 4 (Elche)
03003 Elche (Alicante)
ES978099

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

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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)

Sample thickness: 0.63 mm

Sample unit area weight: 423.28 g/m²

Sample exposed specimen area: 78.5 cm²

Pretreatment techniques used: No

Specific challenge particles used: Latex beads, polystyrene

Particle diameter: 0.1 µm; CV: 3,7%

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

Face velocity: 6 cm/s

Pressure drop: 0.0 mmH₂O

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

Test duration: Three one-minute counts per specimen

Test sensitivity: 0.14%

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

Aerosol generator: B&F Medical model 61402-BB

System flow meters: Pressure Meter PCE Instruments PCE-P05

Particle counter: Lasair[®] III - 110

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

Testing date: 27/05/2021

Number of test specimens: 5

Area tested: Entire Mask

Test results:

Specimen	Average Test Article Counts	Average Control Counts	Filtration Efficiency (%)
1	15625	59	99,62
2	16343	59	99,64
3	17533	58	99,67
4	18116	52	99,71
5	18407	80	99,57