


Cosmetics &
Personal Care

LAB N° 1827 L

Page: 1 of 2

TEST REPORT	Refer to Analytical Report Number																				
SPONSOR	LARISA FACE COVER S.A.																				
	6th KLM NATIONAL ROAD LARISSA																				
	ATHENS, 41110																				
	GREECE																				
TEST METHOD	Bacterial Filtration Efficiency (BFE) – EN 14683:2019+AC:2019 App B																				
TEST ITEM - INFORMATION FROM THE SPONSOR																					
PRODUCT NAME	3ply non woven disposable surgical masks																				
MATRIX OF THE PRODUCT	Face Mask																				
BATCH	L202891	CODE	Not Provided																		
EUROFINS COSMETICS & PERSONAL CARE ITALY IDENTIFICATION																					
MATERIAL ITEM ALIQUOT	N720AA0396-1																				
PARCEL REGISTRATION N.	IP-N7-2020293-AAG	RECEIVING DATE	19 Oct 2020																		
ANALYSIS STARTING DATE	26 Oct 2020	ANALYSIS ENDING DATE	27 Oct 2020																		
EXPERIMENTAL CONDITIONS	Dimension of the test specimen: 175 mm x 95 mm Size of the area tested: 49 cm ² Flow rate during testing: 28,3 l/min Inner side of the mask to the aerosol challenge.																				
PHOTO OF THE TEST ITEM																					
RESULTS	<table border="1"> <thead> <tr> <th></th> <th>RESULT</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td>ALIQUOT 1</td> <td>99,50</td> <td>%</td> </tr> <tr> <td>ALIQUOT 2</td> <td>99,85</td> <td>%</td> </tr> <tr> <td>ALIQUOT 3</td> <td>99,81</td> <td>%</td> </tr> <tr> <td>ALIQUOT 4</td> <td>99,69</td> <td>%</td> </tr> <tr> <td>ALIQUOT 5</td> <td>99,77</td> <td>%</td> </tr> </tbody> </table>				RESULT	UNIT	ALIQUOT 1	99,50	%	ALIQUOT 2	99,85	%	ALIQUOT 3	99,81	%	ALIQUOT 4	99,69	%	ALIQUOT 5	99,77	%
	RESULT	UNIT																			
ALIQUOT 1	99,50	%																			
ALIQUOT 2	99,85	%																			
ALIQUOT 3	99,81	%																			
ALIQUOT 4	99,69	%																			
ALIQUOT 5	99,77	%																			
DETAILED RESULTS	See Addendum N. 1 (1 page)																				

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The test results relate only to the tested items. Sampling, except specific indication on test report, is always intended to be made by the Sponsor.
Information on the test item provided by the Sponsor are under Sponsor responsibility.*

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Cosmetics &
Personal Care



LAB N° 1827 L

Page: 2 of 2

Addendum N.1

Started on: 26/10/2020

Batch: N720AA0396

Sample description: 3ply non woven disposable surgical masks

Lot Number: L202891

Negative Control Plate Counts

	Stage 1	Stage 2	Stage 3*	Stage 4*	Stage 5*	Stage 6*	Mean
Negative Control (CFU)	0	0	0	0	0	0	0

*number of colonies adjusted with positive-hole correction table

Positive Controls Plate Counts

	Stage 1	Stage 2	Stage 3*	Stage 4*	Stage 5*	Stage 6*	Total CFU
Size of particle (µm)	7,00	4,70	3,30	2,10	1,10	0,65	
Positive Control N.1 (CFU)	177	237	857	531	311	273	2386
Positive Control N.2 (CFU)	166	297	1050	649	403	248	2813

*number of colonies adjusted with positive-hole correction table

Mean of the total plate counts of the two positive controls (CFU): 2600

Mean Particle Size (MPS)

	MPS
Positive Control N.1 (µm)	2,86
Positive Control N.2 (µm)	2,84
Mean (µm)	2,85

Test specimens Plate Counts

	Stage 1	Stage 2	Stage 3*	Stage 4*	Stage 5*	Stage 6*	Total CFU
N720AA0396-1 - Aliquot 1	0	0	0	0	1	12	13
N720AA0396-1 - Aliquot 2	0	0	0	0	1	3	4
N720AA0396-1 - Aliquot 3	0	0	0	0	2	3	5
N720AA0396-1 - Aliquot 4	0	0	0	0	1	7	8
N720AA0396-1 - Aliquot 5	0	0	0	0	3	3	6

*number of colonies adjusted with positive-hole correction table

Test specimens Bacterial Filtration Efficiency (BFE)

	BFE (%)
N720AA0396-1 - Aliquot 1	99,50
N720AA0396-1 - Aliquot 2	99,85
N720AA0396-1 - Aliquot 3	99,81
N720AA0396-1 - Aliquot 4	99,69
N720AA0396-1 - Aliquot 5	99,77

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Analytical Report Nr.

AR-20-YL-006649-01

Sample code Nr.

560-2020-00007549

Date

21/10/2020

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: EUAA70-00008808
Reception Date: 20-Oct-2020
Analysis Starting Date: 20-Oct-2020
Analysis Ending Date: 21-Oct-2020
Sample described as: Face masks
Sample code Nr. 560-2020-00007549

Requirements and decision rule

Customer requirements: No requirements
Decision Rule: Not applicable.

Information provided by the customer*

Client Reference: 3ply non woven disposable surgical masks
Sample Description: LARISA FACE COVER S.A
Purchase Order Number:

Batch L202891

Analytical Report Nr.

AR-20-YL-006649-01

Sample code Nr.

560-2020-00007549

Date

21/10/2020

SAMPLE PICTURE

Analytical Report Nr.

AR-20-YL-006649-01

Sample code Nr.

560-2020-00007549

Date

21/10/2020

CONCLUSION:

TEST PROPERTY	PASS	FAIL	REMARKS
Breathability (Differential Pressure) EN 14683:2019+AC:2019 Annex C			
A-Mask			REFER RESULT

Remark: Test has been performed as per application request

Analytical Report Nr.

AR-20-YL-006649-01

Sample code Nr.

560-2020-00007549

Date

21/10/2020

COMPONENT LIST:

COMPONENT ID	COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS
CUST 01	A-Mask	Face mask	Green	---

Analytical Report Nr.

AR-20-YL-006649-01

Sample code Nr.

560-2020-00007549

Date

21/10/2020

MASKS TESTING**CAS No.****RESULTS****UNC.****LOQ****GUIDELINES****Analyses on:A-Mask****Breathability (Differential Pressure)**

Analysis Ending Date: 21/10/2020

EN 14683:2019+AC:2019 Annex C

Differential pressure

53.6 Pa/cm²

-

Complete test data reported at Annex.

Analytical Report Nr.

AR-20-YL-006649-01

Sample code Nr.

560-2020-00007549

Date

21/10/2020

Signed for and on behalf of Eurofins Textile Testing Spain:

Report electronically validated by

Axel Ferrando

Physical-Mechanical 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.

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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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Activities not covered by ENAC accreditation are marked with ◆ ○ ● ■ □

METHOD FOR DETERMINATION OF BREATHABILITY (DIFFERENTIAL PRESSURE)

Test Method: EN 14683: 2019+AC: 2019 Annex C

Number of test specimens: 5

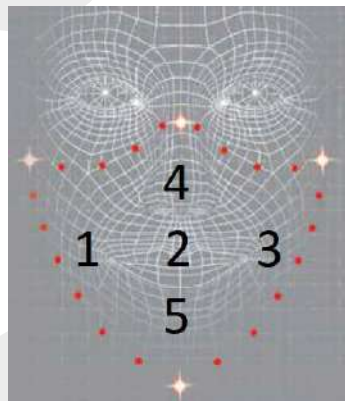
Number of test per specimen: 5

Sample area tested: Circular, diameter 2,5 cm

 Tested area of the test sample: 4,9 cm²

Flow rate during testing: 8±0,25 l/min

General location of measurement areas: Representative of the overall surface.


Results

Specimen	Units (Pa)					Mean value (Pa)	ΔP (Pa/cm ²)
	Position 1	Position 2	Position 3	Position 4	Position 5		
1	250	254	264	243	250	252	51,5
2	257	252	261	265	259	259	52,8
3	263	277	274	265	258	267	54,6
4	267	268	273	272	254	267	54,4
5	268	262	281	275	260	269	54,9
						Mean Value	53,6
						Uncertainty	± 1,9

Observation:

For thick and rigid masks the test method may not be suitable as a proper seal cannot be maintained in the sample holder.

LARISA FACE COVER S.A.
6th KLM NATIONAL ROAD LARISSA
ATHENS, 41110
GR

Client Account Number: A00909959EFO
Eurofins Quote Number: N3OPPT20008601

General Method Reference: EN 14683:2019/AC 2019 App D

Analysis	Specification	Result	Unit
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Eurofins Sample Number N720AA0310-1			
3ply non woven disposable surgical masks - aliquot 1; Lot # L202891; Original Received Date 19-Oct-2020;			
Microbial Cleanliness (Bioburden)			
Aerobic count	----	0.80	CFU/g
Aerobic count	----	3.00	CFU/sample
Yeasts and Moulds	----	0.80	CFU/g
Yeasts and Moulds	----	3.00	CFU/sample
Total Bioburden	≤ 30	1.60	CFU/g
Total Bioburden	----	6.00	CFU/sample
Analysis Date: 19-Oct-2020 to 26-Oct-2020			

Eurofins Sample Number N720AA0310-2			
3ply non woven disposable surgical masks - aliquot 2; Lot # L202891; Original Received Date 19-Oct-2020;			
Microbial Cleanliness (Bioburden)			
Aerobic count	----	< 0.80	CFU/g
Aerobic count	----	< 3.00	CFU/sample
Yeasts and Moulds	----	2.39	CFU/g
Yeasts and Moulds	----	9.00	CFU/sample
Total Bioburden	≤ 30	3.19	CFU/g
Total Bioburden	----	12.00	CFU/sample
Analysis Date: 19-Oct-2020 to 26-Oct-2020			

Eurofins Sample Number N720AA0310-3			
3ply non woven disposable surgical masks - aliquot 3; Lot # L202891; Original Received Date 19-Oct-2020;			
Microbial Cleanliness (Bioburden)			
Aerobic count	----	1.51	CFU/g
Aerobic count	----	6.00	CFU/sample
Yeasts and Moulds	----	1.51	CFU/g
Yeasts and Moulds	----	6.00	CFU/sample
Total Bioburden	≤ 30	3.02	CFU/g
Total Bioburden	----	12.00	CFU/sample
Analysis Date: 19-Oct-2020 to 26-Oct-2020			

Eurofins Sample Number N720AA0310-4			
3ply non woven disposable surgical masks - aliquot 4; Lot # L202891; Original Received Date 19-Oct-2020;			

Analysis	Specification	Result	Unit
Microbial Cleanliness (Bioburden)			
Aerobic count	----	1.53	CFU/g
Aerobic count	----	6.00	CFU/sample
Yeasts and Moulds	----	3.06	CFU/g
Yeasts and Moulds	----	12.00	CFU/sample
Total Bioburden	≤ 30	4.59	CFU/g
Total Bioburden	----	18.00	CFU/sample
Analysis Date: 19-Oct-2020 to 26-Oct-2020			

Eurofins Sample Number N720AA0310-5			
3ply non woven disposable surgical masks - aliquot 5; Lot # L202891; Original Received Date 19-Oct-2020;			
Microbial Cleanliness (Bioburden)			
Aerobic count	----	1.60	CFU/g
Aerobic count	----	6.00	CFU/sample
Yeasts and Moulds	----	0.80	CFU/g
Yeasts and Moulds	----	3.00	CFU/sample
Total Bioburden	≤ 30	2.40	CFU/g
Total Bioburden	----	9.00	CFU/sample
Analysis Date: 19-Oct-2020 to 26-Oct-2020			

Sample Compliance Assessment
Samples N720AA0310-1 through N720AA0310-5 meet the requirement(s) for all listed test(s) where specifications were applied.

Contracted Company: Eurofins Cosmetic & Personal Care Italy (Vimodrone)
via Bruno Buozzi, 2, Vimodrone (MI), IT-20055 Italy InfoCosme@eurofins.com

Questions about this report should be directed to your project manager or the general email listed above.

Analytical Report Nr.

AR-20-YL-006706-01

Sample code Nr.

560-2020-00007550

Date

21/10/2020

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: EUAA70-00008808
Reception Date: 20-Oct-2020
Analysis Starting Date: 20-Oct-2020
Analysis Ending Date: 21-Oct-2020
Sample described as: Face masks
Sample code Nr. 560-2020-00007550

Requirements and decision rule

Customer requirements: No requirements
Decision Rule: Not applicable.

Information provided by the customer*

Client Reference: 3ply non woven disposable surgical masks
Sample Description: LARISA FACE COVER S.A
Purchase Order Number:

Batch L202891

Analytical Report Nr.

AR-20-YL-006706-01

Sample code Nr.

560-2020-00007550

Date

21/10/2020

SAMPLE PICTURE

Analytical Report Nr.

AR-20-YL-006706-01

Sample code Nr.

560-2020-00007550

Date

21/10/2020

CONCLUSION:

TEST PROPERTY	PASS	FAIL	REMARKS
Resistance against penetration by synthetic blood ISO 22609:2004			
A-Mask			REFER RESULT

Remark: Test has been performed as per application request

Analytical Report Nr.

AR-20-YL-006706-01

Sample code Nr.

560-2020-00007550

Date

21/10/2020

COMPONENT LIST:

COMPONENT ID	COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS
CUST 01	A-Mask	Face mask	Green	---

Analytical Report Nr.

AR-20-YL-006706-01

Sample code Nr.

560-2020-00007550

Date

21/10/2020

MASKS TESTING**CAS No.****RESULTS****UNC.****LOQ****GUIDELINES****Analyses on:A-Mask****Resistance against penetration by synthetic blood**

Analysis Ending Date: 21/10/2020

ISO 22609:2004

Result:

29 of 32 samples pass
at 16 kPa

-

Complete test data reported at Annex.

AQL information according to ISO 22609:2004:

A single sampling plan providing an AQL of 4,0 % requires 32 test specimens.

An AQL of 4.0 % is met for a single sampling plan when 29 or more specimens show pass results.

AQL= Acceptable Quality Limit.

Analytical Report Nr.

AR-20-YL-006706-01

Sample code Nr.

560-2020-00007550

Date

21/10/2020

Signed for and on behalf of Eurofins Textile Testing Spain:

Eurofins Textile Testing Spain, S.L.U.
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03203 Elche (Alicante)
ES578099

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
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DETERMINATION RESISTANCE AGAINST PENETRATION BY SYNTETIC BLOOD

Test Method: ISO 22609:2004; Targeting-plate test method

Number of test specimens: 32

Sample size: Circular, diameter 5,58 cm

 Sample area tested: 24,5 cm²

Pressure: 16 kPa (120,0 mm Hg)

Stream velocity of synthetic blood: 550±10 cm/s

Distance of the face mask target area surface from the tip of the cannula: 30,5 cm

Angle of the pneumatic valve with respect to the face mask target area: 90°

Technique used to enhance visual detection of synthetic blood: Hydrophilic cotton

 Conditioning: At least 4 hours. T^a between 16,7°C and 26 °C. HR% between 82,8 and 88 % Hr

Environmental test conditions 24,06 °C; 86,6 % Hr

Pre-treatment: None

Specimen	Results	
	Pass	Fail
1	X	
2	X	
3	X	
4	X	
5	X	
6	X	
7	X	
8	X	
9	X	
10	X	
11	X	
12	X	
13	X	
14	X	
15	X	
16	X	
17	X	
18	X	
19	X	
20	X	
21	X	
22	X	
23	X	
24	X	
25		X
26	X	
27		X
28		X
29	X	
30	X	
31	X	
32	X	

Conclusion	PASS
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