

Analytical Report Nr.

AR-21-YL-002917-01-EN

Sample code Nr.

560-2021-00001740

Date

25/03/2021

ANALYTICAL REPORT

Client Information

MANUFACTURAS ARPE, SL
C / CAN VICTORIANO, 12 POL. INDIANA. TORRENT D'EN PUIG
ARENYS DE MUNT SPAIN
+34 937 937 677
jpera@arpe.es

For the attention of Mr Joan Pera

Sample Information

Order Code: EUAA70-00010686
Reception Date: 17-Feb-2021
Analysis Starting Date: 17-Feb-2021
Analysis Ending Date: 25-Mar-2021
Sample code Nr. 560-2021-00001740
Sample described as: Mascarillas / Masks

Requirements and decision rule

Customer requirements: CWA 17553:2020 Community face coverings requirements- Level 70%
Decision Rule: Shared risk - Simple acceptance. Probability of False Acceptance <50%

Information provided by the customer*

Client Reference: Mascarilla Verde
Sample Description:
Purchase Order Number:

Batch 210125G

Analytical Report Nr.

AR-21-YL-002917-01-EN

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SAMPLE PICTURE



Analytical Report Nr.

AR-21-YL-002917-01-EN

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560-2021-00001740

Date

25/03/2021

CONCLUSION:

TEST PROPERTY	PASS	FAIL	REMARKS
• Bacterial Filtration Efficiency (BFE) EN 14683:2019+AC:2019 Annex B			
B - Tras 20 lavados / After 20 washes	X		
C - Tras 50 lavados / After 50 washes	X		
Washing - Reusable masks ISO 6330:2012			
A - Lavado / Washing			REFER RESULT
Breathability (Differential Pressure) EN 14683:2019+AC:2019 Annex C			
B - Tras 20 lavados / After 20 washes	X		
C - Tras 50 lavados / After 50 washes	X		

Remark: Test has been performed as per application request

Analytical Report Nr.

AR-21-YL-002917-01-EN

Sample code Nr.

560-2021-00001740

Date

25/03/2021

COMPONENT LIST:

COMPONENT ID	COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS
CUST 01	A - Lavado / Washing	Mascarilla / Mask	Verde Green	---
CUST 02	B - Tras 20 lavados / After 20 washes	Mascarilla / Mask	Verde Green	---
CUST 03	C - Tras 50 lavados / After 50 washes	Mascarilla / Mask	Verde Green	---

Analytical Report Nr.

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25/03/2021

MASKS TESTING	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
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Analyses on:A - Lavado / Washing

Washing - Reusable masks

Analysis Ending Date: 17/03/2021

ISO 6330:2012

Number of washing cycles	50	-		
Type of washing machine	A	-		
Temperature	60 °C	-		
Washing procedure	6N	-		
Drying method	C - Flat dry	-		
Detergent used	Reference 3	-		
Specimen and ballast total dry mass	2.0 kg	-		
Type of ballast	Type III - 100% Polyester	-		

Analyses on:B - Tras 20 lavados / After 20 washes

• Bacterial Filtration Efficiency (BFE)

Analysis Ending Date: 25/03/2021

EN 14683:2019+AC:2019 Annex B

Bacterial Filtration Efficiency (BFE)	85.7 %	-	≥ 70 %	✓ Pass
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Complete test data reported at Annex.
Testing covered by NABL accreditation n°TC-5492.

Breathability (Differential Pressure)

Analysis Ending Date: 16/03/2021

EN 14683:2019+AC:2019 Annex C

Differential pressure	17.0 Pa/cm ² (± 0.9) Pa/cm ²	-	< 70 Pa/cm ²	✓ Pass
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Complete test data reported at Annex.

Analytical Report Nr.

AR-21-YL-002917-01-EN

Sample code Nr.

560-2021-00001740

Date

25/03/2021

MASKS TESTING	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
---------------	---------	---------	------	-----	------------

Analyses on:C - Tras 50 lavados / After 50 washes
• Bacterial Filtration Efficiency (BFE)

Analysis Ending Date: 25/03/2021

EN 14683:2019+AC:2019 Annex B

 Bacterial Filtration Efficiency
(BFE)

76.6 %

-

 $\geq 70 \%$
 Pass

 Complete test data reported at Annex.
 Testing covered by NABL accreditation n°TC-5492.

Breathability (Differential Pressure)

Analysis Ending Date: 16/03/2021

EN 14683:2019+AC:2019 Annex C

Differential pressure

 18.1 Pa/cm² (± 1.0) Pa/cm²

-

 $< 70 \text{ Pa/cm}^2$
 Pass

Complete test data reported at Annex.

Analytical Report Nr.

AR-21-YL-002917-01-EN

Sample code Nr.

560-2021-00001740

Date

25/03/2021

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

*Eurofins Textile Testing Spain S.L.U is not responsible of the information supplied by the customer and reported as section "Information provided by the customer".

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

Eurofins Textile Testing Spain, S.L.U.

Calle Germán Bernácer, 4

03203 Elche

ESPAÑA

Phone+34 966 299 638

www.eurofins.com/tex

ENAC is signatory of EA and ILAC Multilateral Agreement for testing
Activities not covered by ENAC accreditation are marked with ◆○●□■

Código de Informe de Ensayo: AR-21-YL-002917-01-ES
Código de muestra 560-2021-00001740
Fecha de emisión 25/03/2021

INFORME DE ENSAYO

Información del cliente

MANUFACTURAS ARPE, SL
C / CAN VICTORIANO, 12 POL. INDIANA. TORRENT D'EN PUIG
ARENYS DE MUNT ESPAÑA
+34 937 937 677
jpera@arpe.es

A la atención de Mr Joan Pera

Información de la muestra

Código de la orden: EUAA70-00010686
Fecha de recepción de la muestra: 17-Feb-2021
Fecha de inicio de análisis: 17-Feb-2021
Fecha fin de análisis: 25-Mar-2021
Código de muestra 560-2021-00001740
Descripción de la muestra: Mascarillas / Masks

Requisitos y regla de decisión

Requerimientos del cliente: CWA 17553:2020 Requisitos para mascarillas higiénicas - Nivel 70%
Regla de decisión: Riesgo compartido - Aceptación simple. Probabilidad de Aceptación Falsa <50%

Información suministrada por el cliente*

Referencia de cliente: Mascarilla Verde
Descripción de la muestra:
Guía de remisión:

Lote 210125G

Código de Informe de Ensayo:

AR-21-YL-002917-01-ES

Código de muestra

560-2021-00001740

Fecha de emisión

25/03/2021

FOTOGRAFÍA DE LA MUESTRA



Código de Informe de Ensayo:

AR-21-YL-002917-01-ES

Código de muestra

560-2021-00001740

Fecha de emisión

25/03/2021

CONCLUSIÓN:

ENSAYO	CUMPLE	NO CUMPLE	OBSERVACIONES
• Eficiencia de Filtración Bacteriana (BFE) EN 14683:2019+AC:2019 Anexo B			
B - Tras 20 lavados / After 20 washes	X		
C - Tras 50 lavados / After 50 washes	X		
Lavado - Mascarilla reutilizable ISO 6330:2012			
A - Lavado / Washing			VER RESULTADOS
Respirabilidad (Presión diferencial) EN 14683:2019+AC:2019 Anexo C			
B - Tras 20 lavados / After 20 washes	X		
C - Tras 50 lavados / After 50 washes	X		

Observación: Los ensayos se realizaron según la solicitud del cliente

Código de Informe de Ensayo: AR-21-YL-002917-01-ES
Código de muestra 560-2021-00001740
Fecha de emisión 25/03/2021

LISTA DE COMPONENTES:

ID DEL COMPONENTE	NOMBRE DEL COMPONENTE	DESCRIPCIÓN DEL MATERIAL	COLOR	OBSERVACIONES
CUST 01	A - Lavado / Washing	Mascarilla / Mask	Verde Green	---
CUST 02	B - Tras 20 lavados / After 20 washes	Mascarilla / Mask	Verde Green	---
CUST 03	C - Tras 50 lavados / After 50 washes	Mascarilla / Mask	Verde Green	---

Código de Informe de Ensayo: AR-21-YL-002917-01-ES
Código de muestra: 560-2021-00001740
Fecha de emisión: 25/03/2021

ENSAYOS A MASCARILLAS	CAS No.	RESULTADOS	INC.	LOQ	LÍMITES
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Análisis sobre:A - Lavado / Washing

Lavado - Mascarilla reutilizable

Fecha fin de análisis: 17/03/2021

ISO 6330:2012

Número de ciclos de lavado	50	-		
Tipo de lavadora	A	-		
Temperatura	60 °C	-		
Procedimiento de lavado	6N	-		
Tipo de secado	C - Secado en horizontal	-		
Detergente utilizado	Referencia 3	-		
Masa total seca de las probetas y el contrapeso	2.0 kg	-		
Tipo de contrapeso utilizado	Tipo III - 100% Poliéster	-		

Análisis sobre:B - Tras 20 lavados / After 20 washes

• Eficiencia de Filtración Bacteriana (BFE)

Fecha fin de análisis: 25/03/2021

EN 14683:2019+AC:2019 Anexo B

Eficacia de filtración bacteriana (BFE)	85.7 %	-	≥ 70 %	✓ Cumple
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Datos completos del ensayo incluidos en el Anexo.
 Ensayo cubierto por acreditación NABL nº TC-5492.

Respirabilidad (Presión diferencial)

Fecha fin de análisis: 16/03/2021

EN 14683:2019+AC:2019 Anexo C

Presión diferencial	17.0 Pa/cm ² (± 0.9) Pa/cm ²	-	< 70 Pa/cm ²	✓ Cumple
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Datos completos del ensayo incluidos en el Anexo.

Código de Informe de Ensayo: AR-21-YL-002917-01-ES
Código de muestra: 560-2021-00001740
Fecha de emisión: 25/03/2021

ENSAYOS A MASCARILLAS	CAS No.	RESULTADOS	INC.	LOQ	LÍMITES
-----------------------	---------	------------	------	-----	---------

Análisis sobre:C - Tras 50 lavados / After 50 washes

• **Eficiencia de Filtración Bacteriana (BFE)**

Fecha fin de análisis: 25/03/2021

EN 14683:2019+AC:2019 Anexo B

Eficacia de filtración bacteriana (BFE)	76.6 %	-	≥ 70 %	✓ Cumple
-----------------------------------------	--------	---	--------	----------

Datos completos del ensayo incluidos en el Anexo.
 Ensayo cubierto por acreditación NABL nº TC-5492.

Respirabilidad (Presión diferencial)

Fecha fin de análisis: 16/03/2021

EN 14683:2019+AC:2019 Anexo C

Presión diferencial	18.1 Pa/cm ² (± 1.0) Pa/cm ²	-	< 70 Pa/cm ²	✓ Cumple
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Datos completos del ensayo incluidos en el Anexo.

Código de Informe de Ensayo: AR-21-YL-002917-01-ES
Código de muestra 560-2021-00001740
Fecha de emisión 25/03/2021

Firmado en representación de Eurofins Textile Testing Spain:



Informe validado electrónicamente por

Axel Ferrando

Responsable Laboratorio Físico/Mecánico

Nota aclaratoria

- ◆ Ensayo no amparado por la acreditación ENAC
- Test subcontratado dentro del grupo Eurofins y está acreditado
- Test subcontratado dentro del grupo Eurofins y no está acreditado
- Test subcontratado fuera del grupo Eurofins y está acreditado
- Test subcontratado fuera del grupo Eurofins y no está acreditado

N/A = No Aplica

Eurofins Textile Testing Spain S.L.U no es responsable de la información suministrada por el cliente indicada en el apartado "Información suministrada por el cliente".

Los resultados obtenidos refieren solamente a las muestras, productos o materiales recibidos en el laboratorio, descritos en el apartado "Descripción de las muestras" y fueron ensayados en las condiciones descritas en el presente informe.

Las incertidumbres de ensayo no indicadas están a disposición del cliente, para aquellos ensayos en los que puedan ser estimadas.

La incertidumbres expandidas incluidas en el informe están basadas en la incertidumbre típica multiplicada por el factor de cobertura $k=2$, que para una distribución normal proporciona un nivel de confianza de aproximadamente el 95%

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Si desea hacer cualquier comentario contacte con nosotros a través de la siguiente dirección de correo electrónico textile_spain@eurofins.com indicando este número de informe.

FIN DEL INFORME

Eurofins Textile Testing Spain, S.L.U.

Calle Germán Bernácer, 4

03203 Elche

ESPAÑA

Teléfono+34 966 299 638

www.eurofins.com/tex



CIN:U74220DL1998PLC092698

TEST REPORT

Test Report Issued To:

EUROFINS TEXTILE TESTING SPAIN SL

C/ GERMAN BERNACER, 9, 03203,
ELCHE (ALICANTE), ELCHE ALICANTE, SPAIN

Test Report No: N210304007/N210304007-11

Date of Issue: 09-Mar-2021



Sample Booking/Receipt Date: 04-Mar-2021

Date of Start of Testing: 04-Mar-2021

Date of Completion of Test: 09-Mar-2021

Customer Relationship Number 60680

Sample Description :

MASK SAMPLE DESCRIPTION 560-2021-00001740 AFTER 20 WASHES



Customer Reference No

EUA70-00010686 AFTER 20 WASHES

Kind Attention : MELODIE RUIZ

E-Mail: resultintercotexspain@eurofins.com

Contact No: +34 966 299 638

Sample Condition : GOOD

Sample Quantity (Approx) : -

Sample Size (Approx) : -

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED

Report Issued By

ULR-TC549221000003965F

Authenticity of report can be verified by mail at verification@spectrolab.in

This is a Digitally Signed Report and hence doesn't require Physical Signature.

Spectro Analytical Labs Limited, E-41, Okhla Indl. Area, Phase-II, New Delhi-110020(India)

Phone :+91-11-40522000, 41611000 || Web: www.spectro.in || Email: care@spectro.in

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory

Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

TEST REPORT FOR DETERMINATION OF:

Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of Staphylococcus aureus

1. Name of Product

Mask

2. Test Method

BS EN 14683:2019/Annex B: Medical face masks - Requirements and test methods

3. Scope

To perform bacterial filtration efficiency test on surgical mask as per procedure given BS EN 14683:2019, by using biological aerosol of Staphylococcus aureus.

4. Testing Laboratory

Name: Spectro Analytical Labs Limited
Address: E-41, Okhla Phase-2
New Delhi
Pin Code: 110020
Ph: 011-40522000

5. Date of Test

Test Date : 04.03.2021

6. Specimen Verification

6.1. Specimen Definition

The testing laboratory was not involved in the selection of the test specimen.

7. Conditioning

Each test specimens were placed for 5 h at a temperature of 21 ± 5 °C and a relative humidity of 85 ± 5 %.

8. Inoculum Size

Staphylococcus aureus ATCC 6538 (5×10^5 cfu/ml)

9. Medium Used

Tryptic soya agar

10. Temperature condition

$37^\circ\text{C}/20$ to 52 hours

Rity Tiwari
Analyst Signature



Testing(TC-5492)



ULR-TC549221000003965F



Authorised Signatory

11. Observations, Requirements & Result

Sr. no.	Test Parameters	Result	Limits as per BS EN 14683:2019/ANNEX B	Test Method
1	Bacterial Filtration Efficiency of Specimen (%)	85.7	Level 1= \geq 95 Level 2= \geq 98 Level 3= \geq 98	BS EN 14683:2019
		86.1		
		85.3		
		85.6		
		85.8		
	Average of BFE results (%)	85.7		
2	Area of test Specimen	(100×100) Face side	Face side	BS EN 14683:2019
3	Flow rate of aerosol	28.3	28.3 L/Minute	BS EN 14683:2019
4	Mean particle size of Challenge aerosol of Staphylococcus aureus, micron	2.77	3±0.3	BS EN 14683:2019
5	Average Plate count of Positive control of Staphylococcus aureus in count, per test	1924	1700-3000	BS EN 14683:2019
6	Average Plate count of Negative control	Negative	Negative	BS EN 14683:2019

Remarks: The sample showed average 85.7 % Bacterial filtration efficiency against Staphylococcus aureus ATCC 6538 according to BS EN 14683:2019 test method.

-- End of Test Report --

ULR-TC549221000003965F



Rity Tiwari
Analyst Signature



Testing(TC-5492)

Authorised Signatory

CIN:U74220DL1998PLC092698

TEST REPORT

Test Report Issued To:

EUROFINS TEXTILE TESTING SPAIN SL

C/ GERMAN BERNACER, 9, 03203,
ELCHE (ALICANTE), ELCHE ALICANTE, SPAIN

Test Report No: N210320004/N210320004-11

Date of Issue: 25-Mar-2021



Sample Booking/Receipt Date: 20-Mar-2021

Date of Start of Testing: 20-Mar-2021

Date of Completion of Test: 25-Mar-2021

Customer Relationship Number 60680

Sample Description :

MASK SAMPLE 560-2021-00001740 AFTER 50 WASHES



Customer Reference No

EUA70-00010686 AFTER 50 WASHES

Kind Attention : MELODIE RUIZ

E-Mail: resultintercotexspain@eurofins.com

Contact No: +34 966 299 638

Sample Condition : GOOD

Sample Quantity (Approx) : -

Sample Size (Approx) : -

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED

Report Issued By

ULR-TC549221000004860F

Authenticity of report can be verified by mail at verification@spectrolab.in

This is a Digitally Signed Report and hence doesn't require Physical Signature.

Spectro Analytical Labs Limited, E-41, Okhla Indl. Area, Phase-II, New Delhi-110020(India)

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Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

TEST REPORT FOR DETERMINATION OF:

Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of Staphylococcus aureus

1. Name of Product

Mask

2. Test Method

BS EN 14683:2019/Annex B: Medical face masks - Requirements and test methods

3. Scope

To perform bacterial filtration efficiency test on surgical mask as per procedure given BS EN 14683:2019, by using biological aerosol of Staphylococcus aureus.

4. Testing Laboratory

Name: Spectro Analytical Labs Limited
Address: E-41, Okhla Phase-2
New Delhi
Pin Code: 110020
Ph: 011-40522000

5. Date of Test

Test Date : 20.03.2021

6. Specimen Verification

6.1. Specimen Definition

The testing laboratory was not involved in the selection of the test specimen.

7. Conditioning

Each test specimens were placed for 5 h at a temperature of 21 ± 5 °C and a relative humidity of 85 ± 5 %.

8. Inoculum Size

Staphylococcus aureus ATCC 6538 (5×10^5 cfu/ml)

9. Medium Used

Tryptic soya agar

10. Temperature condition

37°C/20 to 52 hours

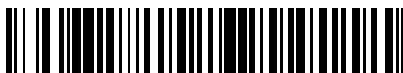
Mahesh Bano
Analyst Signature



Testing(TC-5492)



ULR-TC549221000004860F



Authorised Signatory

11. Observation, Requirements & Result

Sr. no.	Test Parameters	Result	Limits as per BS EN 14683:2019/ANNEX B	Test Method
1	Bacterial Filtration Efficiency of Specimen (%)	76.3	Level 1= \geq 95 Level 2= \geq 98 Level 3= \geq 98	BS EN 14683:2019
		76.8		
		76.4		
		77.0		
		76.5		
	Average of BFE results (%)	76.6		
2	Area of test Specimen	(100 mm \times 100 mm) Face side	Face side	BS EN 14683:2019
3	Flow rate of aerosol	28.3	28.3 L/Minute	BS EN 14683:2019
4	Mean particle size of Challenge aerosol of Staphylococcus aureus, micron	3.09	3 \pm 0.3	BS EN 14683:2019
5	Average Plate count of Positive control of Staphylococcus aureus in count, per test	1954	1700-3000	BS EN 14683:2019
6	Average Plate count of Negative control	Negative	Negative	BS EN 14683:2019

Remarks: The sample showed average 76.6 % Bacterial filtration efficiency against Staphylococcus aureus ATCC 6538 according to BS EN 14683:2019 test method.

Mahvish Bano
Analyst Signature



ULR-TC549221000004860F



Testing(TC-5492)

Authorised Signatory

12. Observations

Negative Plate count

Specimen	Count of Plate at stage-1	Count of Plate at stage-2	Count of Plate at stage-3	Count of Plate at stage-4	Count of Plate at stage-5	Count of Plate at stage-6	Total sum of counts
Negative control (cfu)	0	0	0	0	0	0	0

Positive Plate count

Specimen	Count of Plate at stage-1	Count of Plate at stage-2	Count of Plate at stage-3	Count of Plate at stage-4	Count of Plate at stage-5	Count of Plate at stage-6	Total sum of counts
Size of particle micron	7.00	4.70	3.30	2.10	1.10	0.65	
Positive control No.-1, cfu	297	275	436	425	282	274	1989
Positive control No.-2, cfu	263	249	461	443	258	245	1919

Mean of the total plate counts of the two positive controls (cfu)= 1954

Mean Particle size (MPS)

	MPS
Positive control No.-1, (µm)	3.11
Positive control No.-2, (µm)	3.07
Mean (µm)	3.09

Mahvish Bano
Analyst Signature



Testing(TC-5492)



ULR-TC549221000004860F



Authorised Signatory

Test Specimens Plate counts

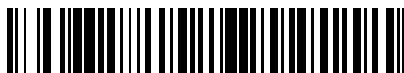
Specimen	Count of Plate at stage-1	Count of Plate at stage-2	Count of Plate at stage-3	Count of Plate at stage-4	Count of Plate at stage-5	Count of Plate at stage-6	Total sum of counts
Aliquot-1	16	33	41	76	137	160	463
Aliquot-2	21	31	36	82	130	152	453
Aliquot-3	20	29	38	79	136	159	461
Aliquot-4	19	28	41	74	133	154	449
Aliquot-5	22	27	39	81	134	156	459

Test Specimens Bacterial Filtration efficiency (BFE)

	BFE (%)
Aliquot-1	76.3
Aliquot-2	76.8
Aliquot-3	76.4
Aliquot-4	77.0
Aliquot-5	76.5

-- End of Test Report --

ULR-TC549221000004860F



Mahvish Bano
 Analyst Signature



Testing(TC-5492)



Authorised Signatory

**METHOD FOR DETERMINATION OF BREATHABILITY (DIFFERENTIAL PRESSURE)
 DETERMINACIÓN DE LA RESPIRABILIDAD (PRESIÓN DIFERENCIAL)**

Test Method / Método de ensayo: EN 14683: 2019+AC: 2019 Annex C

Number of test specimens / Número de muestras de ensayo: 5

Number of test per specimen / Número de ensayos por muestra: 5

Sample area tested / Dimensión de la muestra de ensayo: Circular, diameter 2,5 cm/Circular, diametro 2,5 cm

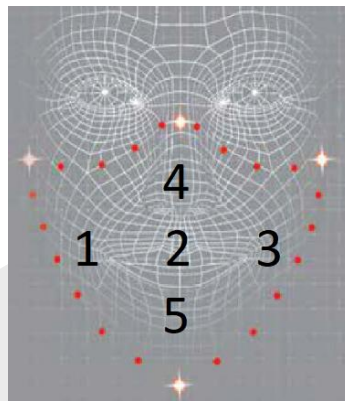
Tested area of the test sample / Tamaño del área sometida a ensayo: 4,9 cm²

Flow rate during testing / Caudal de aire: 8±0,6 l/min

General location of measurement areas / Ubicación general de las áreas de medición: Representative of the overall surface / Representativos de toda la superficie

Conditioning / Acondicionamiento: T^a between 16,7°C and 26 °C. RH between 82,8% and 88 % during at least 4 h. / T^a entre 16,7°C y 26 °C. HR entre 82,8% y 88% durante al menos 4 h.

Airflow direction during testing / Dirección del flujo de aire durante el ensayo: From the inner layer to the outer layer / Desde la capa interior hasta la capa exterior.



Results original sample / Resultados muestra original

Specimen Probeta	Units / Unidades (Pa)					Mean value Valor medio (Pa)	ΔP (Pa/cm ²)
	Position Posición 1	Position Posición 2	Position Posición 3	Position Posición 4	Position Posición 5		
1	80	73	89	85	84	82	16,8
2	77	82	84	82	85	82	16,7
3	81	83	84	85	86	84	17,1
4	86	83	87	82	78	83	17,0
5	85	80	85	91	88	86	17,5
						Mean Value Media	17,0
						Uncertainty Incertidumbre	± 0,9

Results after 50 wash cycles at 60°C / Resultados tras 50 ciclos de lavado a 60°C

Specimen <i>Probeta</i>	Units / Unidades (Pa)					Mean value <i>Valor medio</i> (Pa)	ΔP (Pa/cm ²)
	Position <i>Posición</i> 1	Position <i>Posición</i> 2	Position <i>Posición</i> 3	Position <i>Posición</i> 4	Position <i>Posición</i> 5		
1	83	84	89	86	85	85	17,4
2	88	83	80	94	95	88	18,0
3	90	92	83	86	93	89	18,1
4	92	82	88	97	95	91	18,5
5	91	84	89	95	89	90	18,3
						Mean Value <i>Media</i>	18,1
						Uncertainty <i>Incertidumbre</i>	± 1,0

Observation / Observación:

For thick and rigid masks the test method may not be suitable as a proper seal cannot be maintained in the sample holder. / Para mascarillas gruesas y rígidas, el método de ensayo puede no ser adecuado dado que no se pueden mantener un sello apropiado en el soporte de la muestra.

**MINIMUM REQUIREMENTS FOR COMMUNITY FACE COVERING ACCORDING TO CWA 17553:2020
REQUISITOS MÍNIMOS PARA COBERTORES FACIALES COMUNITARIOS BASADOS EN LA NORMA CWA 17553:2020**

Tests <i>Ensayos</i>	Acceptance criteria <i>Criterio de aceptación</i>	
Bacterial filtration efficiency (BFE), (%) (EN 14683: 2019 + AC: 2019 Section 5.2.2) <i>Eficacia de filtración bacteriana (BFE), (%)</i> (EN 14683: 2019 + AC: 2019 Sección 5.2.2)	Level 90% ≥ 90%	Level 70% ≥ 70%
Breathability (Differential pressure), (Pa/cm ²) (EN 14683: 2019 + AC: 2019 Section 5.2.3) <i>Respirabilidad (Presión diferencial) (Pa/cm²)</i> (EN 14683: 2019 + AC: 2019 Sección 5.2.3)	< 70	