

**TEST REPORT NO: 165762**

Date: 09 November 2020

**BAG FILTER  
89-89 QUARTIER INDUSTRIEL  
AZLI  
40000 MARRAKECH  
MOROCCO**

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Retailer	PPE Testing
Description of article	TYPE IIR SURGICAL MASK
Retailer style number	BLUE
Retailer Standard Number	UNKNOWN
Order No./ Buyer	SURGICAL MASKS
Quality/Fibre Composition	NW/MB/NW
Date Sample(s) Received:	06 October 2020

Tests	Pass	Fail	Remarks
EN14683 BFE Bacterial Filtration Efficiency			See results
EN14683 Differential Pressure (Breathability)			See results
EN 14683 Synthetic Blood Penetration Type IIR	X		
EN14683 Bioburden (Microbial Cleanliness)	X		

Signature



**Lucy Peberdy Technologist**

For and on behalf of  
SGS United Kingdom Ltd

All samples are conditioned to ISO 139 where conditioning is required (unless otherwise stated)

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**Customer: BAG FILTER**

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**Test Results**

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### Test Results

#### Bacterial filtration efficiency (BFE) (EN14683:2019+AC:2019 Appendix B)

Test Side : White colour (Inside)  
Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H  
Dimensions of the test specimen : 171 mm x 96 mm  
BFE Test Area : 49cm<sup>2</sup>  
BFE Flow Rate : 28.3 l/min  
Test bacteria : Staphylococcus aureus ATCC 6538  
Positive Control Average : 2.7 x 10<sup>3</sup> CFU  
Negative Monitor Count : < 1 CFU

Test Specimen	Percent BFE (%)
1	99.7
2	99.6
3	99.8
4	99.5
5	99.6

#### Determination of Breathability (EN14683:2019+AC:2019 Appendix C Differential pressure)

Test Side : White colour (Inside)  
Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H  
Test Area : 4.9cm<sup>2</sup>  
Flow Rate : 8 l/min

Test Location	ΔP (Pa/cm <sup>2</sup> )				
	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Top Centre	51.0	48.1	45.1	47.1	46.1
Centre	54.9	47.1	45.1	46.1	37.3
Bottom Centre	40.2	39.2	41.2	40.2	39.2
Centre Left	44.1	44.1	44.1	45.1	44.1
Centre Right	42.2	36.3	35.3	53.0	30.4
Average	46.5	43.0	42.2	46.3	39.4

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**Test Results**

**Splash resistance (ISO 22609:2004)**

Test Side : Blue colour (Outside)  
Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H  
Test Conditioning : 21±5°C and (85±10%) R.H  
Test Pressure : 16.0 kPa (120 mmHg)  
No of Test Specimen Tested : 32  
No of Test Specimen Passed : 30

Test Specimen #	Synthetic Blood Penetration
1-12, 14-16, 18-32	None seen
13, 17	Yes

Note:

1. An acceptable quality limit of 4.0% is met for a single sampling plan when 29 or more of the 32 tested specimens show “pass” results
2. Targeting-plate method was used.

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### Test Results

#### Microbial cleanliness (Bioburden) (EN 14683:2019+AC:2019 Annex D)

##### Test Methods

Bioburden

The analyses were performed according to EN 14683:2019+AC:2019 Annex D and ISO 11737-1:2018

Type IIR Surgical mask blue			
Article Number	Mask Weight	Total Bioburden cfu/mask	Total Bioburden, cfu/g
1	3.57g	12	3.36
2	3.55g	24	6.76
3	3.48g	18	5.17
4	3.53g	9	2.55
5	3.53g	6	1.70
Mean:		13.8	3.9

Recovery Efficiency	Correction Factor
96.4%	1.0

**Microbial Cleanliness (Bioburden): 4.1 cfu/g**

Standard requirement#:  $\leq 30$  cfu/g

Note:

1. Results reported on the submitted sample on an as received basis
2. cfu = Colony Forming units
3. Extraction method; by shaking at 250rpm for 5 minutes
4. #EN 14683:2019 – Medical face masks – Requirements and test methods – Performance requirements for medical face masks – Microbial cleanliness

\*Sub contracted to a ilac-MRA & IAS (TL-817) accredited lab

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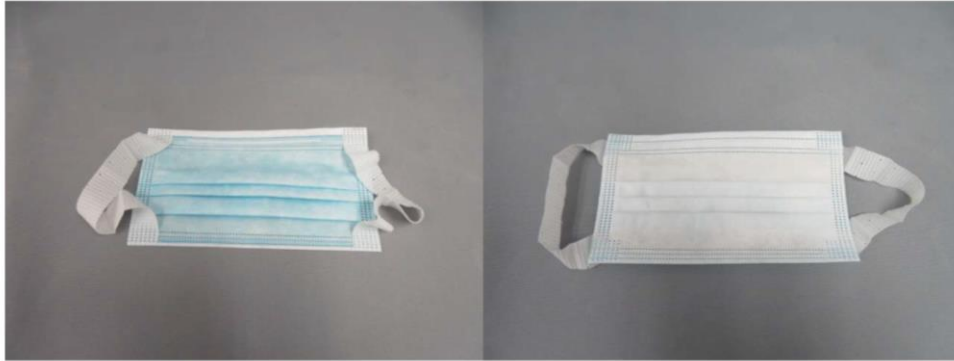
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## Test Results



End of Report

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