





国际互认 检测 TESTING CNAS L0599

Page 1 of 5

Date: May 22,2020

Test Report

SL52025246234001TX

MASKRI (HUZHOU) BIOTECHNOLOGY CO., LTD.

1/F BUILDING1, THE HU WRITING BRUSH INDUSTRIES CENTER, NO.66 ZHANWANG ROAD, SHANLIAN TOWN, NANXUN DISTRICT, HUZHOU CITY, ZHEJIANG PROVINCE, 313014, CHINA

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

Sample Description (A)Single use medical face mask(non sterile)

Sample Color (A)BLUE

Proposed Care Instruction:

Test Performed Selected test(s) as requested by applicant

Sample Receiving Date Apr 29, 2020

Testing Period Apr 29, 2020 - May 22, 2020

Test Result(s) Unless otherwise stated the results shown in this test report refer only to the

sample(s) tested, for further details, please refer to the following page(s).

Comment:

EN 14683:2019+AC:2019 Medical Face Masks-Requirements and Test Methods	(A)
Clause 5.2 Performance Requirement	
Clause 5.2.2 Bacterial filtration efficiency (BFE)	M
Clause 5.2.3 Breathability	M
Clause 5.2.4 Splash Resistance	M
Clause 5.2.5 Microbial Cleanliness	M
Clause 5.2.6 Biocompatibility	EXCLUDED

Remark: M=Meet EN 14683:2019+AC:2019 Performance Requirement (Type IIR) F=Below EN 14683:2019+AC:2019 Performance Requirement (Type IIR)

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Sara Guo (Account Executive)



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Test Report SL52025246234001TX Date:May 22,2020 Page 2 of 5

Test Result

EN 14683:2019+AC:2019 Medical Face Masks-Requirements and Test Methods

Clause 5.2 Performance Requirement

Clause 5.2.2 Bacterial Filtration Efficiency (BFE)

(EN 14683:2019+AC:2019 Annex B)

Sample: A

Test Side : Inside

Test Area Approximately 60 cm²

Flow Rate 28.3 L/min

Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H.

: ~175mm x 158mm Dimensions of test specimen

: 2668 CFU Positive Control Average Negative Monitor Count : < 1 CFU Mean Particle Size : 3.0 ±0.3µm

Test bacteria : Staphylococcus aureus ATCC 6538

Test Item	Specimen No.	Result
Bacterial Filtration Efficiency (BFE)	1	99.9%
	2	99.9%
	3	99.9%
	4	99.9%
	5	99.9%

Remark:

- 1) Performance Requirement: Type I≥95%, Type II≥98%, Type IIR≥98%
- The number of specimens that shall be tested is minimum 5, but can be greater and shall be increased if necessary to allow for an AQL(Acceptable Quality Level) of 4%.



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Page 3 of 5 **Test Report** SL52025246234001TX Date: May 22,2020

Clause 5.2.3 Breathability

(EN 14683 :2019+AC:2019 Annex C)

Sample: A

Test Side Randomly test in different location (1 around and 4 away from the centric

point) on each of the 5 masks

Pre-Conditioning Minimum of 4 hours at 21±5°C and 85±5% R.H.

Test Area 4.9 cm² Flow Rate 8 l/min

Specimen No.	Test Area No.	Different Pressure for each	The average value for each test	
		tested area (Pa/cm²)	specimen (Pa/cm²)	
	1-1	35.5		
	1-2	34.5		
1	1-3	39.1	36	
	1-4	35.9		
	1-5	36.9		
	2-1	36.7		
	2-2	32.9		
2	2-3	33.8	35	
	2-4	32.9		
	2-5	38.6		
	3-1	35.9		
3	3-2	36.7		
	3-3	36.4	36	
	3-4	35.6		
	3-5	37.3		
	4-1	34.2		
	4-2	36.0		
4	4-3	35.9	36	
	4-4	36.4	1	
	4-5	35.5		
5	5-1	35.6		
	5-2	34.6		
	5-3	36.3	36	
	5-4	37.5	1	
	5-5	34.6		

Remark:

- Performance Requirement: Type I<40 Pa/cm², Type II<40 Pa/cm², Type IIR<60 Pa/cm²
- The number of specimens that shall be tested is minimum 5, but can be greater and shall be increased if necessary to allow for an AQL(Acceptable Quality Level) of 4%.



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Test Report SL52025246234001TX Date:May 22,2020 Page 4 of 5

Clause 5.2.4 Splash Resistance

(ISO 22609:2004)

Sample: A

Test Blood Pressure : 16.0kPa

Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H.

Distance of the mask to the tip of cannula : 300±10mm

Test Specimen#	Penetration on inside surface	Conclusion	Test Specimen#	Penetration on inside surface	Conclusion
1	None Seen	Pass	17	None Seen	Pass
2	None Seen	Pass	18	None Seen	Pass
3	None Seen	Pass	19	None Seen	Pass
4	None Seen	Pass	20	None Seen	Pass
5	None Seen	Pass	21	None Seen	Pass
6	None Seen	Pass	22	None Seen	Pass
7	None Seen	Pass	23	None Seen	Pass
8	None Seen	Pass	24	None Seen	Pass
9	None Seen	Pass	25	None Seen	Pass
10	None Seen	Pass	26	None Seen	Pass
11	None Seen	Pass	27	None Seen	Pass
12	None Seen	Pass	28	None Seen	Pass
13	None Seen	Pass	29	None Seen	Pass
14	None Seen	Pass	30	None Seen	Pass
15	None Seen	Pass	31	None Seen	Pass
16	None Seen	Pass	32	None Seen	Pass
Number of Pass:		32			
Overall result:		Acceptable			

Remark:

- 1) Performance Requirement Type I: N/A, Type II: N/A, Type IIR:≥16.0kPa
- 2) Test was conducted within 60s after removal from conditioning chamber.
- 3) 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.



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Date:May 22,2020

Page 5 of 5

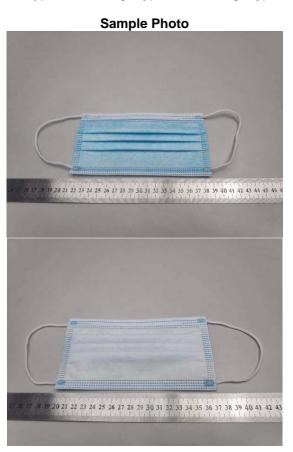
Clause 5.2.5 Microbial Cleanliness

(EN 14683:2019+AC:2019 Annex D and EN ISO 11737-1:2018)

Sample: A

Test Specimen#	Mask Weight(g)	Total Bioburden, (CFU/mask)	Total Bioburden, (CFU/g)
1#	3.38	3	0.89
2#	3.36	3	0.89
3#	3.36	12	3.57
4#	3.39	18	5.31
5#	3.37	3	0.89

Remark: Performance Requirement: Type I≤30 CFU/g, Type II≤30 CFU/g, Type IIR≤30 CFU/g



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report



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