

Test Report **SL52025256537201TX** **Date: May 21, 2020** **Page 1 of 3**
QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD
JIANGSHAN INDUSTRIAL PARK, LAIXI, QINGDAO, CHINA

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

Sample Description : (A) Disposable Medical Face Mask

Style No. : C010
Composition : (A) PP Non-woven, Melt-blown fabric
Sample Color : (A) Blue
Manufacturer : QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD
Country of Destination : EUR
Supplier : QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : May 06, 2020
Testing Period : May 09, 2020 - May 21, 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).

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 Result

Medical Face Masks-Requirements and Test Methods

(EN 14683:2019)

Clause 5.2.2 Bacterial filtration efficiency (BFE)*

(EN 14683 :2019 Annex B)

	1#	2#	3#	4#	5#
(BFE), %	>99.9	99.9	>99.9	99.9	99.9

Remark: Performance Requirement: Type I $\geq 95\%$, Type II $\geq 98\%$, Type IIR $\geq 98\%$

* This test standard is not within the accredited scope in SGS Shanghai testing centre, it is carried out by external laboratory accredited by CMA (China Metrology Accreditation).

Clause 5.2.3 Breathability (Differential Pressure)

(EN 14683 :2019 Annex C, Flow rate 8 l/min)

	1#	2#	3#	4#	5#
Differential pressure ΔP (Pa/cm ²)	34	34	35	36	35

Remark: Performance Requirement: Type I < 40 Pa/cm², Type II < 40 Pa/cm², Type IIR < 60 Pa/cm²

Clause 5.2.4 Splash Resistance

(ISO 22609 :2004, Pressure 16.0 kPa)

Penetration on inside surface							
1#	2#	3#	4#	5#	6#	7#	8#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
9#	10#	11#	12#	13#	14#	15#	16#
Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass
17#	18#	19#	20#	21#	22#	23#	24#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
25#	26#	27#	28#	29#	30#	31#	32#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Number of Pass:			31				
Overall result:			Acceptable				

Remark:

- 1) Performance Requirement Type I: N/A, Type II: N/A, Type IIR: $\geq 16.0\text{kPa}$
- 2) Distance of the medical face mask target area surface to the tip of cannula is $300 \pm 10\text{mm}$.
- 3) Condition and Test temperature $(21 \pm 5)^\circ\text{C}$, relative humidity $(85 \pm 10)\%$
- 4) 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



Clause 5.2.5 Microbial Cleanliness
(EN 14683: 2019 Annex D)

	1#	2#	3#	4#	5#
CFU/g	<1	<1	<1	<1	<1

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

Sample Photo



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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