



Test Report 3203248.

Qingzhou Yaowang Pharmaceutical
Co., Ltd.




Introduction.

This report has been prepared by Paul Waller and relates to the activity detailed below:

Job/Registration Details	Client Details
Job number: 3203248 Job type: Testing Samples Submitted Start Date: 12/05/2020 Test type: Type Sample ID: 10189560 Registration: CE 728425 Scheme: Negative pressure RPE Protocol: PP123 Scheme Manager: Kinga Demetriou	Qingzhou Yaowang Pharmaceutical Co., Ltd. No. 3787, New York Road Economy Development Zone Qingzhou City Shandong China

The report has been approved for issue by T Wicksey – Senior Test Engineer

Approved For Issue	
	Issue Date: 21 May 2020

Objectives.

This is an independent test evaluation to only certain clauses or sub-clauses of the agreed specification in accordance with the following test programme:

BSI COVID-19 filtering face piece technical specification, for COVID-19 masks for use by healthcare workers

Product Scope.

COVID-19 masks for use by healthcare workers

Report Summary.

The samples were received on 4 May 2020 and the testing was started on 12 May 2020.

The samples submitted complied with the requirements of the test work conducted for an FFP2 half mask. They did not meet the requirements for an FFP3 half mask.

Test Samples.

Sample ID	ER Number	Description
1 to 19	10189560	Model: N95-FWJ

Description of Test Samples.

Sample Description
COVID-19 masks for use by healthcare workers: Model: N95-FWJ



Test Requirements.

Testing in accordance with BSI COVID-19 filtering face piece technical specification

Technical testing specification for COVID-19 masks for use by healthcare workers

EN 149:2001+A1:2009 Performance requirement	EN 149:2001+A1:2009 Test method clause	Requirement	Assessment
7.7 Practical performance The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard. Where practical performance tests show the apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections. <i>2 test subjects, masks tested 'As received'</i>	Testing shall be done in accordance with 8.4.	During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded: a) head harness comfort; b) security of fastenings; c) field of vision; d) any other comments reported by the wearer on request.	Pass
7.9 Leakage 7.9.1 Total inward leakage <i>5 test subjects, masks tested 'As received'</i>	Testing shall be done in accordance with 8.5.	All samples must achieve All individual exercise results tests shall be not greater than 11 % (for FFP2) and, in addition, all arithmetic means for the total inward leakage shall be not greater than 8 % (for FFP2)	Pass
7.9 Leakage 7.9.2 Penetration of filter material <i>3 test samples masks tested 'As received', for NaCl (Sodium Chloride) and PO (Paraffin oil), 3min test</i>	Testing shall be done in accordance with 8.11	FFP2 6% for both PO and NaCl FFP3 1% for both PO and NaCl	FFP2: Pass FFP3: Fail
7.12 Carbon dioxide content of the inhalation air <i>3 test samples, masks tested 'As received'</i>	Testing shall be done in accordance with 8.7.	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).	Pass
7.16 Breathing resistance <i>3 test samples, masks tested 'As received'</i>	Testing shall be done in accordance with 8.9	The breathing resistances shall meet the requirements of; 30l/min – 0.7mbar (inhale) 95l/min – 2.4mbar (inhale) 160l/min – 3.0mbar (exhale)	Pass
Appendix A - Test Panel Data			
Product Photographs			

Glossary of Terms.

Pass: Complies. Tested by BSI engineers at BSI laboratories

Pass 1: Complies. Witnessed by BSI engineers in manufacturers laboratory.

Pass 2: Complies. Tests carried out by third party lab; results accepted by BSI.

Pass*: Report resulted in uncertainty and states that Compliance is more probable than non-compliance.

Fail: Non-compliance. Product does not meet the requirements of this clause.

Fail*: Report resulted in uncertainty and states that Non-compliance is more probable than compliance.

N/T: Not Tested

N/A: Not Applicable

AR: As Received

TC: Temperature Conditioned

SW: Simulated Wear

FT: Flow Tested

MS: Mechanical strength

MMDF: Manufactures Minimum Design Flow

MMDC: Manufactures Minimum Design Condition

Conditions of Issue.

This Test Report is issued subject to the conditions stated in current issue of 'BSI Terms of Service'. The results contained herein apply only to the particular sample(s) tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of BSI, who reserve the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

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BSI
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Maylands Avenue
Hemel Hempstead
Hertfordshire
HP2 4SQ



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Test Results.

Testing in accordance with BSI COVID-19 filtering face piece technical specification

BS EN 149:2001 +A1:2009 Technical testing specification for COVID-19 masks for use by healthcare workers

CLAUSE	REQUIREMENTS	ASSESSMENT
7.7	<p>Practical performance</p> <p>The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard.</p> <p>Where practical performance tests show the apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections.</p> <p>Test in accordance with clause 8.4 of the standard.</p> <p>Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers</p> <p><i>During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded:</i></p> <p><i>a) head harness comfort; b) security of fastenings; c) field of vision; d) any other comments reported by the wearer on request.</i></p>	Pass

Table A: Practical performance

Test candidate	Sample	Comments				Assessment
		Head harness comfort	Security of fastenings	Field of vision	Any other comments	
AA1	1 AR	OK	OK	Good	Nose band off centre, leaked into right side of eye	Pass
JB1	2 AR	OK	OK	OK	Leaked around nose towards eye	Pass

7.9 Leakage

7.9.1 Total inward leakage

The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.

The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration.

Test in accordance with clause 8.5 of the standard.

Pass

Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers

5 test subjects, masks tested 'As received'. All individual exercise results tests shall be not greater than 11 % (for FFP2) and, in addition, all arithmetic means for the total inward leakage shall be not greater than 8 % (for FFP2).

Table B: Clause 7.9.1 - Total inward leakage

Test candidate	Sample	Pre test condition	Inward Leakage (%)						Assessment
			A	B	C	D	E	Average	
			Walking	Walking with head side to side	Walking with head up & down	Walking and talking	Walking		
SI1	3	AR	0.86	0.80	1.00	1.53	0.29	0.89	Pass
LM2	4	AR	0.12	1.20	1.13	0.39	0.35	0.64	Pass
JS2	5	AR	0.56	0.47	0.49	0.56	0.42	0.50	Pass
JA1	6	AR	1.87	2.64	2.34	1.40	2.11	2.07	Pass
JW1	7	AR	0.87	0.29	0.18	0.87	0.23	0.46	Pass

Test Results. (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
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7.9.2

Penetration of filter material

Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers
 3 test samples masks tested 'As received', for NaCl (Sodium Chloride) and PO (Paraffin oil), 3 min test. Testing shall be done in accordance with 8.11.

FFP2: Pass
 FFP3: Fail

Table C: Clause 8.11 - Sodium Chloride penetration test

Sample number	Pre-test condition	Flow through filter (l/min)	Penetration (%)	
			Limit	Actual
8	AR	95	FFP2: < 6 FFP3: < 1	0.284
9	AR			0.122
10	AR			0.105

Table D: Clause 8.11 - Paraffin oil penetration test

Sample number	Pre-test condition	Flow through filter (l/min)	Penetration (%)	
			Limit	Actual
11	AR	95	FFP2: < 6 FFP3: < 1	1.201
12	AR			1.824
13	AR			1.193

7.12

Carbon dioxide content of inhalation air

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0% (by volume).

Pass

Test in accordance with clause 8.7 of the standard.

Table E: Clause 8.7 - Carbon Dioxide content of the inhalation air

Sample	Pre-test condition	Dead space CO ₂ (%)	
		Limit	Measured
14	AR	< 1.0	0.44
15	AR		0.47
16	AR		0.42

Test Results. (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
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7.16

Breathing resistance

Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers

3 test samples masks tested 'As received'. Test in accordance with clause 8.9 of the standard.

The breathing resistances shall meet the requirements of FFP2;
30l/min – 0.7mbar (inhale), 95l/min – 2.4mbar (inhale), 160l/min – 3.0mbar (exhale)

Pass

Table F: Clause 8.9 – Breathing resistance. Inhalation resistance at a continuous flow

Sample	Pre-test condition	Continuous flow (l/min)	Inhalation resistance (mbar)	
			Limit	Measured
17	AR	30	< 0.7	0.49
18	AR			0.45
19	AR			0.49
17	AR	95	< 2.4	1.65
18	AR			1.53
19	AR			1.67

Table G: Clause 8.9 – Breathing resistance. Exhalation resistance at a continuous flow, measured in five orientations with the worst case reported

Sample	Pre-test condition	Continuous flow (l/min)	Exhalation resistance (mbar)	
			Limit	Measured
17	AR	160	< 3.0	2.72
18	AR			2.57
19	AR			2.81



Appendix A. – Test Panel Data

Test Candidate	Facial Dimensions (mm)					Sex
	Length of face	Width of face	Face depth	Width of mouth	Head Circumference	
JW1	116	126	122	48	570	Male
SI1	121	135	142	48	575	Male
AA1	125	144	130	47	581	Male
JB1	114	144	108	59	574	Male
JA1	117	134	129	49	565	Male
JS2	126	142	125	57	575	Male
LM2	110	148	125	44	589	Male

Note: All candidates were clean shaven

Product photographs.



Front view



Side View



Inside View

End of Report

Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

This is to certify that:

Qingzhou Yaowang Pharmaceutical CO., LTD
NO.3787, New York Road
Economy Development Zone
Qingzhou City
Shandong
262515
China

Holds Certificate Number:

CE 728426

In respect of:

For the manufacture of particulate respirators to technical specification to satisfy Annex II of the PPE Regulation (EU) 2016/425.

on the basis that BSI carried out the supervised production checks at random intervals under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex VII (Module C2)

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):

Previous Notified Body: BSI 0086

First Issued: 2020-06-09

Latest Issue: 2020-06-09

Drs. Dave Hagenaaars, Managing Director

Effective Date: 2020-06-09

Expiry Date: 2021-06-09

Page: 1 of 3



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Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

No. CE 728426

Product manufactured by:

Qingzhou Yaowang Pharmaceutical CO., LTD
NO.3787, New York Road
Economy Development Zone
Qingzhou City
Shandong
262515
China

Product details

The respiratory protective device covered by the scope of this Module C2 Certificate and the Technical Specification to which the product is manufactured are as follows:

Product type:	Particulate filtering half masks for use by Healthcare professionals.
Model and classifications:	N95-FWJ FFP2
Technical Specification:	Technical specification to satisfy Annex II of the PPE Regulation (EU) 2016/425. BSI's PPE for Healthcare Professionals 2020/403 – RPE Technical Specification.

First Issued: 2020-06-09
Latest Issue: 2020-06-09

Effective Date: 2020-06-09
Expiry Date: 2021-06-09

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Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

No. CE 728426

Certificate Administration Details:

Certificate Amendment Record and BSI internal Review relating to this Certificate

Issue date	Comments	BSI Review No.
June 2020	First issue.	2797:20:3203253

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspects of the overall quality system utilized in the manufacture of the products, failure to do so could invalidate the Certificate in respect of product manufactured after the introduction of such changes.

First Issued: 2020-06-09
Latest Issue: 2020-06-09

Effective Date: 2020-06-09
Expiry Date: 2021-06-09

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Qingzhou Yaowang Pharmaceutical Co., Ltd.

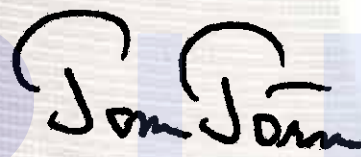
No.3787, New York Road, Economy Development Zone,
Qingzhou City, Shandong Province, China

It is certified that the manufacturer's technical file and the PPE product detailed on
page 2 have been assessed and found to be in accordance with

Regulation (EU) 2016/425 Module B, EU type-examination

This certificate is valid from 19 August 2020 until 19 August 2025
1. Certified since 19 August 2020

Authorised by



FINAS
Finnish Accreditation Service
S003 (EN ISO/IEC 17065)

SGS FIMKO OY, Notified Body 0598
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**Qingzhou Yaowang
Pharmaceutical Co., Ltd.****Regulation (EU) 2016/425**
Module B, EU type-examination

Issue 1

PPE Product

Yao Wang (logo) FWJ white folded half mask, consisting of a white four layer (polypropylene/cotton / polypropylene / polypropylene) disposable particle filtering half mask, with galvanized iron wire coated with polyethylene nose clip, nylon/spandex ear band and polypropylene pothook.

It is certified that the manufacturer's technical file and the above mentioned PPE have been assessed and found to meet the applicable Essential Health and Safety Requirements in Annex II of Regulation (EU) 2016/425 Personal Protective Equipment

The following have been applied:

EN 149:2001+A1:2009 (Respiratory protective devices - filtering half masks to protect against particles) device classification: FFP2 NR.

This certificate is issued on the strict condition that appropriate checks on manufactured PPE, as detailed in Article 19 (c) of the Regulation are implemented and maintained while the model is in production

Certification is based on technical file reference:
Protective Face Mask/ FWJ, version 2, dated: 2020-08-12.

SGS Reference Number UK/CRS 241464.

This certificate remains the property of SGS Fimko Oy to whom it must be returned on request

FINAS
Finnish Accreditation Service
S003 (EN ISO/IEC 17065)

Test Report **SL52025256665001TX** **Date: May 25, 2020** **Page 1 of 3**
 QINGZHOU YAOWANG PHARMACEUTICAL CO., LTD.
 NO.3787, NEW YORK ROAD, ECONOMY DEVELOPMENT ZONE, QINGZHOU CITY, SHANDONG
 PROVINCE, CHINA

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

Sample Description : (A)Face mask
 (Medical protective mask (Non sterile))

Style No. : N95-FWJ

Composition : (A)Polypropylene melt blown non-woven fabric, Spunbond nonwovens

Sample Color : (A)white

Manufacturer : QINGZHOU YAOWANG PHARMACEUTICAL CO., LTD.

Country of Destination : EU countries, United States etc.

Supplier : QINGZHOU YAOWANG PHARMACEUTICAL CO., LTD.

Proposed Care Instruction : -

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

Sample Receiving Date : May 08, 2020

Testing Period : May 08, 2020 - May 25, 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 ≥95%, Type II ≥98%, Type IIR ≥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)	51	50	51	51	49

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	Pass	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:			32				
Overall result:			Acceptable				

Remark:

- 1) Performance Requirement Type I: N/A, Type II: N/A, Type IIR: ≥16.0kPa
- 2) Distance of the medical face mask target area surface to the tip of cannula is 300±10mm.
- 3) Condition and Test temperature (21±5)° C, relative humidity (85±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



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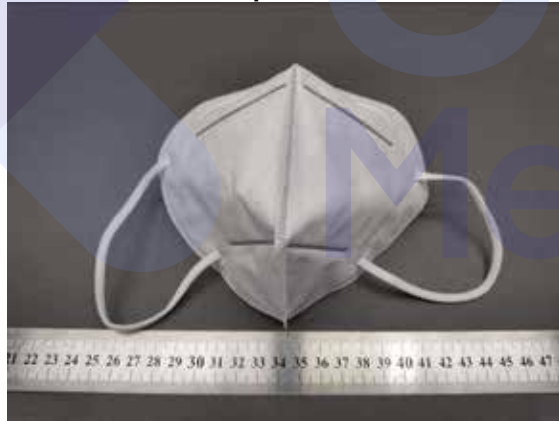
Clause 5.2.5 Microbial Cleanliness

(EN 14683: 2019 Annex D)

	1#	2#	3#	4#	5#
CFU/g	10	17	11	19	10

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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