

CERTIFICATE OF NOTIFICATION

This is to certify that, according to the European Council Directive 93/42/EEC, Riomavix S.L. performed all notification duties and responsibilities as the European Authorized Representative:

MANUFACTURER: CHANGZHOU ECON LIDS CO., LTD.

ADDRESS: JIAOXI INDUSTRIAL PARK, ZHENGLU, TIANNING, CHANGZHOU213115, JIANGSU, CHINA

The manufacturer has provided Riomavix S.L. with all the appropriate declaration according to the European Council Directive 93/42/EEC including the EC Declaration of Conformity confirming that its medical device, as stipulated here below, is fulfilling the essential requirements of the European Council Directive 93/42/EEC.

Devices: Medical Face Mask

Classification: I

Model: 17.5(±5%)cm*9.5(±5%)cm,14.5(±5%)cm*9.5(±5%)cm

Where the manufacturer affix the CE mark to the device listed they must ensure that all the essential requirements of European Council Directive 93/42/EEC are met.

The notification of abovementioned device has been completed by the European Authorized Representative in Spain. The Spain Competent Authority is notifed of the manufacture's device and has allocated registration. The registration number is RPS/686/2020



Issue date: 6/MAY/2020 Cert. No.: R20200507



EC Declaration of Conformity

Manufacturer:

Name: CHANGZHOU ECON LIDS CO., LTD.

Add.: JIAOXI INDUSTRIAL PARK, ZHENGLU, TIANNING, CHANGZHOU 213115,

JIANGSU, CHINA

Email: sales@team-long.com

European Representative:

Name: Riomavix S.L.

Add: Calle de Almansa 55, 1D, Madrid 28039 Spain

Tel.: +34 658 396 230

E-mail: riomavix@gmail.com

Product Name: Medical face mask

Classification and relevant Rule of MDD: I, MDD 93/42/EEC Annex IX, Rule 1

Sizes: $17.5(\pm 5\%)$ cm* $9.5(\pm 5\%)$ cm, $14.5(\pm 5\%)$ cm* $9.5(\pm 5\%)$ cm

GMDN: 35177

We herewith declare under our sole responsibility that the above-mentioned products meet the provisions of the following EC Council Directives and Standards. All technical documentations are retained under the premises of the manufacturer.

DIRECTIVES

General applicable directives:

Medical Device Directive: COUNCIL DIRECTIVE 93/42/EEC

Standard: EN 14683:2019 Type I

CE

This Declaration of conformity is valid in connection with the release document for the respective batch of produced devices.

The above mention declaration of conformity is exclusively under the responsibility of

Company: CHANGZHOU ECON LIDS CO., LTD.

Address: JIAOXI INDUSTRIAL PARK, ZHENGLU, TIANNING, CHANGZHOU 213115, JIANGSU, CHINA

Changzhou, 2020-04-30.
Place, date

Legally binding signature, Function



SUBJECT Physical & Microbiological Test

TEST LOCATION TÜV SÜD China

> TÜV SÜD Products Testing (Shanghai) Co., Ltd. B-3/4, No.1999 Du Hui Road, Minhang District

Shanghai 201108, P.R. China

CLIENT NAME CHANGZHOU ECON LIDS CO., LTD.

CLIENT ADDRESS JIAOXI INDUSTRIAL PARK, ZHENGLU, TIANNING.

CHANGZHOU, JIANGSU, CHINA

TEST PERIOD 11-Jul-2020~20-Jul-2020

Prepared By

Bella Xu

(Bella Xu) Report Drafter **Authorized By**



Note: (1) General Terms & Conditions as mentioned overleaf. (2) The results relate only to the items tested.(3) The test report shall not be reproduced except in full without the written approval of the laboratory.(4) Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

201108 P.R. China



TEST REPORT

Sample Description

Medical Face Mask

Sample Quantity

40 pieces

Lot Number/Batch Code

20200501

Specification

Planar Ear Loop

Size

14.5*9cm

Brand Name

Remark: The above information was provided by applicant.

Summary of Test Results

No.	Test Item	Test Method	Test Standard Type I	Judgement	
1	Bacterial Filtration Efficiency Test (BFE), %	EN 14683:2019+AC:2019(E) Annex B	≥ 95	Pass	
2	Differential Pressure Test EN 14683:2019+AC:2019(E) (Pa/cm²) Annex C		< 40	Pass	
3	Microbial Cleanliness Test (CFU/g)	EN 14683:2019+AC:2019(E) Annex D	≤ 30	Pass	

Note: Pass = Meet customer requirements;

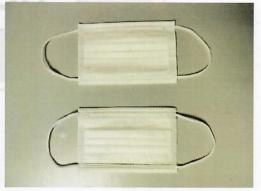
Fail = Fail customer requirements;

= No comment;

N.D. = Not detected.

Photo of Samples





Chemical/Microbiology Laboratory: TÜV SÜD Products Testing (Shanghai) Co.,

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Phone: +86 (21) 6037 6375 Fax: +86 (21) 6037 6345 Email: food.chem@tuv-sud.cn Webpage: www.tuv-sud.cn



Results

No.	Test Item	Test Result		
		Specimen 1#: 99.9%		
	Bacterial Filtration Efficiency (BFE) Test	Specimen 2#: 99.9%		
1		Specimen 3#: 98.9%		
		Specimen 4#: 99.7%		
		Specimen 5#: 99.9%		
2	Differential Pressure Test	25.7 Pa/cm ²		
		Specimen 1#: <1 CFU/g		
		Specimen 2#: <1 CFU/g		
3	Microbial Cleanliness Test	Specimen 3#: <1 CFU/g		
		Specimen 4#: <1 CFU/g		
		Specimen 5#: <1 CFU/g		

Bacterial Filtration Efficiency (BFE) Test

1. Purpose

For evaluating the bacterial filtration efficiency (BFE) of masks.

2. Sample description was given by client

Sample description

Medical Face Mask

Specification

Planar Ear Loop

Lot Number

20200501

Sample Receiving Date

2020-07-11

3. Test Method

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

4. Apparatus and materials

- 4.1 Staphylococcus aureus ATCC 6538 (Particle Diameter 3.0±0.3µm).
- 4.2 Peptone water.
- 4.3 Tryptic Soy Broth(TSB).
- 4.4 Tryptic Soy Agar(TSA).
- 4.5 Bacterial filtration efficiency test apparatus.
- 4.6 Six-stage viable particle Anderson sampler.
- 4.7 Flow meters.

5. Test specimen

- 5.1 As requested by client, take a total of 5 test specimens.
- 5.2 Prior to testing, condition all test specimens for a minimum of 4 h at (21±5)°C and (85±5)% relative humidity.

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6. Procedure

- 6.1 Preparation of the bacterial challenge: Dilute the cultutre in peptone water to achieve a concentration of approximately 5×105 CFU/mL.
- 6.2 Adjust the flow rate through the Anderson sampler to 28.3 L/min.
- 6.3 Deliver the challenge to the nebulizer using a syringe pump. Purge tubing and nebulizer of air bubbles.
- 6.4 Perform a positive control run without a test specime to determine the number of viable aerosol particles being generated. The mean particle size (MPS) of the aerosol will also be calculated from the results of these positive control plates.
 - 6.4.1 Initiate the aerosol challenge by turning on the air pressure and pump connected to the nebulizer. Immediaterly begin sampling the aerosol using the Anderson sampler.
 - 6.4.2 Time the challenge suspension to be delivered to the nebulizer for 1 min.
 - 6.4.3 Time the air pressure and Anderson sampler to run for 2 min.
 - 6.4.4 At the conclusion of the positive control ran, remove plates from the Anderson sampler.
- 6.5 Place new agar plates into Anderson sampler and clamp the test specimen into the top of the Anderson sampler, with the inside of the specimen facing towards the bacterial challenge (test area: 77cm2).
- 6.6 Repeat the challenge procedure for each test specimen.
- 6.7 Repeat a positive control after completion of the sample set.
- 6.8 Perform a negative control run by collecting a 2 min sample of air from the aerosol chamber. No bacterial challenge should be pumped into the nebulizer during the collection of the negative control.
- 6.9 Incubate agar plates at (37±2)°C for (20 to 52) h.
- 6.10 Count each of the six-stage plates of the Anderson sampler.

7. Calculation

Total the count from each of the six plates for the test specimens and positive controls, as specified by the manufacture of Anderson sampler. The filtration efficiency percentages are calculated as follows:

 $BFE=(C-T)/C \times 100$

T is the total plate count for the test specimen.

C is the mean of the total plate counts for the two positive controls.

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8. Test results*

P Value Stage Number	Positive Control (A)	Positive Control (B)	Negative Control	Specimen 1#	Specimen 2#	Specimen 3#	Specimen 4#	Specimen 5#
1	23	33	0	0	0	0	0	0
2	38	93	0	0	0	2	0	0
3	53	94	0	0	0	2	0	0
4	115	147	0	0	0	4	2	0
5	1476	1125	0	1	1	4	3	1
6	228	269	0	1	1	8	1	1
Total (7), CFU	1933	1761	<1	2	2	20	6	2
Average (C), CFU	1.8 x10³= ((P _A +P _B) / 2						
BFE ,%				99.9	99.9	98.9	99.7	99.9
Requirements		≥ 95						
Remarks	P is the value of corresponding corrected particle counts as specified by the manufacturer of the cascade impactor. T is the total of P value for the test specimen. C is the mean of the total of P value of the two positive controls.							

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Differential pressure Test

1.Purpose

The purpose of the test was to measure the differential pressure of masks.

2. Sample description was given by client

Sample description

Medical Face Mask

Specification Lot Number

Planar Ear Loop

Sample Receiving Date

20200501

2020-07-11

3.Test Method

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

4. Apparatus and materials

Differential pressure testing instrument

5.Test specimen

- 5.1 Test specimen are complete masks or shall be cut from masks. Each specimen shall be able to provide 5 different circular test areas of 2.5 cm in diameter.
- 5.2 Prior to testing, condition all test specimens for a minimum of 4 h at (21±5) °C and (85±5)% relative humidity.

6. Procedure

- 6.1 Without a specimen in place, the holder is closed and the differential manometer is zeroed. The pump is started and the flow of air adjusted to 8 L/min.
- 6.2 The pretreated specimen is placed across the orifice (total area 4.9cm², test area diameter 25mm, airflow direction from the inside of the mask to the outside of the mask) and clamped into place so as to minimize air leaks.
- 6.3 Due to the presence of an alignment system the tested area of the specimen should be perfectly in line and across the flow of air.
- 6.4 The differential pressure is read directly.
- 6.5 The procedure described in steps 6.1-6.4 is carried out on 5 different areas of the mask and readings averaged.

Results:

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Specimen	Test Results* (Pa/cm²)	Average (Pa/cm²)	Requirements	Judgement	
1#	24.4	25.7 < 40			
2#	24.8			Pass	
3#	26.3		< 40		
4#	26.5				
5#	26.4				

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Microbial Cleanliness Test

1. Purpose

The purpose of the test was to measure microbial cleanliness of mask.

2. Sample description was given by client

Sample description

Medical Face Mask

Specification

Planar Ear Loop

Lot Number

20200501

Sample Receiving Date

2020-07-11

3. Test Method

According to EN ISO 11737-1:2018 to determine the microbial cleanliness of mask material, and refer to the procedure as described in EN 14683:2019+AC:2019(E) Annex D

4. Apparatus and materials

- 4.1 Orbital shaker.
- 4.2 0.45 um filter.
- 4.3 Tryptic Soy Agar (TSA).
- 4.4 Sabouraud Dextrose Ager (SDA) with chloramphenicol.
- 4.5 Formula of Extraction Liquid: 1g/L peptone, 5g/L NaCl and 2g/L Tween 20.
- 4.6 Extraction apparatus.

5. Test specimen

- 5.1 As requested by client, take a total of 5 mask samples.
- 5.2 Mask samples for testing are provided in the original primary packaging.
- 5.3 Condition at (18 to 26) [℃] and (45 to 65)% relative humidity during testing.

6. Procedure

- 6.1 Five test specimens are selected from the top, bottom and 3 randomly chosen marks.
- 6.2 The mask is aseptically removed from the packaging and placed in a sterile 500 mL bottle containing 300 mL of extraction liquid.
- 6.3 The bottle is laid down on an orbital shaker and shaken for 5 min at 250 rpm.
- 6.4 After extracting, 100mL of the extraction liquid is filtered through a 0.45 um filter and laid down on a TSA plate for the total viable aerobic microbial count. Another 100 mL aliquot of the same extraction liquid is filtered in the same way and the filter plated on SDA for fungi enumeration.
- 6.5 The plates are incubated for 3 days at 30°C and 7 days at (20 to 25)°C for TSA and SDA plates respectively.
- 6.6 Calculate the colonies of each agar plate.

7. Calculation

For each test specimen calculate the microbial cleanliness as follows by:

 $N_i = 3 n_i / M$ Microbial Cleanliness=N₁+N₂

i = 1, 2.

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n =Colonies of the TSA plate or the SDA Plate.

M =Weight of the mask.

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Results*:

Specimen	1#	2#	3#	4#	5#
Weight of the Mask (M, g)	2.65	2.68	2.69	2.66	2.68
Colonies of the TSA Plate (n ₁)	0	0	0	0	0
Colonies of the SDA Plate (n ₂)	0	0	0	0	0
Aerobic Microbial Number (N ₁ , CFU/g)	0	0	0	0	0
Fungi Number (N₂, CFU/g)	0	0	0	0	0
Microbial Cleanliness, (CFU/g)	<1	<1	<1	<1	<1
Requirements			≤ 30		

Note:

- 1.*denotes this test was carried out by external laboratory assessed as competent.
- 2.This report is for internal use only such as internal scientific research ,education, quality control, product R&D.

-END OF THE TEST REPORT-

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