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

OMAVI.

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

Executive Directo

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



Riomavix S.L. Calle de Almansa 55, 1D, Madrid 28039 Spain

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 IIR Product Code: EC203

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, 2020-11-14. Ptuce, date

Hao Zhuo, General Manager 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 CLIENT ADDRESS	CHANGZHOU ECON LIDS CO., LTD. JIAOXI INDUSTRIAL PARK, ZHENGLU, TIANNING, CHANGZHOU, JIANGSU, CHINA
TEST PERIOD	06-Nov-2020~14-Nov-2020

Prepared By

Bella Xu

(Bella Xu) **Report Drafter**



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.

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

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Regional Head Office: TÜV SÜD Certification and Testing (China) Co., Ltd. No.151 Heng Tong Road Shanghai 200 070 P.R.China



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TEST REPORT

Sample Description	:	Medical Face Mask
Sample Quantity	:	100 pieces
Lot Number/Batch Code	:	20201101
Specification	:	1
Size	:	175*95mm
Brand Name	:	1
Style Number	:	Planar Ear Loop 175*95mm
Remark: The above information	tion was	

Summary of Test Results

No.	Test Item	Test Method	Test Standard Type Ⅱ R	Judgement
1	Bacterial Filtration Efficiency Test (BFE), %	EN 14683:2019+AC:2019(E) Annex B	≥ 98	Pass
2	Differential Pressure Test (Pa/cm ²)			Pass
3	Splash Resistance Pressure Test (kPa)	EN 14683:2019+AC:2019(E) ISO 22609:2004	≥ 16.0	Pass
4	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



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Test Report No.: 721659692 Report Date: 19 November 2020



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Results

No.	Test Item	Test Result	
		Specimen 1#: 99.9%	
		Specimen 2#: 99.9%	
1	Bacterial Filtration Efficiency (BFE) Test	Specimen 3#: 99.9%	
		Specimen 4#: 99.9%	
		Specimen 5#: 99.9%	
2	Differential Pressure Test	42.4 Pa/cm ²	
3	Splash Resistance Pressure Test	Specimen 1#~32#: None seen	
		Specimen 1#: 4 CFU/g	
		Specimen 2#: 3 CFU/g	
4	Microbial Cleanliness Test	Specimen 3#: 2 CFU/g	
		Specimen 4#: 2 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		/
Lot Number	:	20201101
Sample Receiving Date	1	2020-11-06

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 × 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	18	31	0	0	0	0	0	0
2	56	67	0	0	0	0	0	0
3	144	183	0	0	0	0	0	0
4	333	308	0	0	0	0	0	0
5	15 <mark>6</mark> 5	1518	0	0	0	0	0	0
6	559	579	0	0	0	0	0	0
Total (7), CFU	2675	2686	<1	<1	<1	<1	<1	<1
Average (C), CFU	2.7 x10³= (P _A +P _B) / 2	1		-			
BFE ,%				99.9	99.9	99.9	99.9	99.9
Requirements		1	37	2	98			
Remarks	T is the total	e of correspon actor. of <i>P</i> value for an of the total	r the test sp	ecimen.			e manufactur	er of the

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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

:	Medical Face Mask
:	/
:	20201101
:	2020-11-06
	:

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.

Specimen	Test Results* (Pa/cm²)	(Pa/cm ²)	Requirements	Judgement	
1#	40.4				
2#	39.9	42.4 <	< 60	Pass	
3#	44.6				
4#	42.2				
5#	44.7				

Results:

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Splash Resistance Pressure Test

1.Purpose

For evaluation of resistance of masks to penetration by a fixed volume of synthetic blood at a high velocity.

2.Sample description was given by client

Sample description	:	Medical Face Mask
Specification	:	/
Lot Number	:	20201101
Sample Receiving Date	:	2020-11-06

3.Test Method

EN 14683:2019+AC:2019(E).

ISO 22609:2004.

4.Apparatus and materials

- 4.1 Synthetic blood.
- 4.2 Tensiometer.
- 4.3 Synthetic blood penetration test apparatus;
- 4.4 Targeting plate.
- 4.5 Air pressure source.
- 4.6 Ruler.
- 4.7 Balance.
- 4.8 Controlled temperature and humidity chamber.

5.Test specimen

- 5.1 As requested by client, take a total of 32 test specimens.
- 5.2 Prior to testing, condition all test specimens for a minimum of 4h at (21±5)°C and (85±5) % relative humidity.

6.Procedure

- 6.1 Prepare the synthetic blood (40~44 mN/m) for the test.
- 6.2 Determine the density of the synthetic blood.
- 6.3 Fill the reservoir with new synthetic blood.
- 6.4 Position the test specimen 30.5 cm (12 in.) from the exit of the canula.
- 6.5 Set the reservoir pressure to the approximate pressure.
- 6.6 Place the targeting plate approximately 1 cm away from the mask.
- 6.7 Set the valve timer to 0.5 s. Collect and weigh the amount of fluid delivered (before the targeting

hole).

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- 6.8 Set the valve timer to 1.5 s. Collect and weigh the amount of fluid delivered (before the targeting hole).
- 6.9 Calculate the difference in weight of the two spurts. For a test fluid with a density of 1.003, Table 1 gives the target difference in weight plus lower and upper limits for a velocity range within 2% of the target.

Fluid Pressure	Weight difference for 1s difference in spurt duration (g)				
(mmHg)	Min.	Target	Max.		
120	3.002	3.063	3.124		

Table	1	Target	woight	difference
able	1	rarget	weight	amerence

- 6.10 Adjust the reservoir pressure and repeat steps 6.7 to 6.9 until the weight difference is within the target range.
- 6.11 Record the weight difference for the spurts exiting the nozzle.
- 6.12 Record the pressure in the reservoir.
- 6.13 Set the valve time to 0.5 s. Collect and weigh the amount of fluid passing through the targeting hole.
- 6.14 Set the valve time to 1.5 s. Collect and weigh the amount of fluid passing through the targeting hole.
- 6.15 The difference in weight between the 0.5 s and 1.5 s spurts through the targeting plate shall be within +2 % ~ -5 % of the difference in weight from the nozzle.
- 6.16 If the differential weight is less than 95 % of the weight difference exiting the nozzle, check the aim of the stream to make sure it is passing cleanly through the targeting hole.
- 6.17 If the differential weight is more than 102 % of the weight difference exiting the nozzle, repeat the weight measurements exiting the nozzle (steps 6.7 to 6.11).
- 6.18 For standard synthetic blood, the timer duration can be estimated using the formula:

(p is the density of the test fluid.) $t = 0.5 + (2 \times p - g \text{ at } 0.5 \text{ s}) / (g \text{ at } 1.5 \text{ s} - g \text{ at } 0.5 \text{ s}).$

- 6.19 Record the timer setting to use as the starting point for subsequent testing.
- 6.20 Mount a test specimen on the specimen holding fixture. If the mask contains pleats, spread the pleats out when mounting the mask onto the fixture to present a single layer of material as the target area.
- 6.21 Squirt the synthetic blood onto the test specimen for the calculated time. Ensure that the synthetic blood hits the target area of mask.
- 6.22 Inspect the inside surface for synthetic blood penetration within 10 s of squirting the synthetic blood against the target area.
- 6.23 Report the results (none / penetration) for each test specimen at the test pressure.

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Test Report No.: 721659692 Report Date: 19 November 2020



Results:

Specimen	Test Results*	Requirements	Judgement
1#	None Seen		Pass
2#	None Seen		Pass
3#	None Seen		Pass
4#	None Seen		Pass
5#	None Seen		Pass
6#	None Seen		Pass
7#	None Seen		Pass
8#	None Seen		Pass
9#	None Seen		Pass
10#	None Seen		Pass
11#	None Seen		Pass
12#	None Seen		Pass
13#	None Seen		Pass
14#	None Seen		Pass
15#	None Seen		Pass
16#	None Seen	Pass Pressure at 16.0 kPa	Pass
17#	None Seen	(120mmHg)	Pass
18#	None Seen		Pass
19#	None Seen		Pass
20#	None Seen		Pass
21#	None Seen		Pass
22#	None Seen		Pass
23#	None Seen		Pass
24#	None Seen	SUD /	Pass
25#	None Seen		Pass
26#	None Seen		Pass
27#	None Seen		Pass
28#	None Seen		Pass
29#	None Seen		Pass
30#	None Seen		Pass
31#	None Seen		Pass
32#	None Seen		Pass

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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	:	/
Lot Number	:	20201101
Sample Receiving Date	:	2020-11-06

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) °C 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.

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)	3.07	3.11	3.09	3.09	3.07		
Colonies of the TSA Plate (n ₁)	1	0	2	1	0		
Colonies of the SDA Plate (n ₂)	3	1	0	1	0		
Aerobic Microbial Number (N1, CFU/g)	1	0	2	1	0		
Fungi Number (N₂, CFU/g)	3	3	0	1	0		
Microbial Cleanliness, (CFU/g)	4	3	2	2	<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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25 只装彩袋 25Pcs/color bag



合格证 Certificate of approval



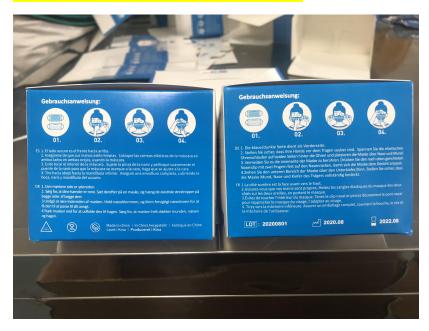
中盒 Middle box 50pcx/box



中盒带条码 Middle box with EAN CODE



<mark>中盒侧面 side picture of middle box</mark>



外箱带条码 Outer carton with EAN CODE



