





TL-787 Page 1 of 7

Report No.: BT20040301619-1

Customer Information:

Customer. : Anhui Jinrui Auto Parts Co., Ltd.

Hefei, Anhui Province

Sample Information:

Sample Name..... Disposable Medical mask

Sample Specification. . . : 17.5cm*9.5cm

Sample Description : Samples in good condition

Sampled Method. : All parts were received from customer

Receipt Date....: 2020-04-03

Testing Information:

Test Items..... Bacterial Filtration Efficiency(BFE), etc.

Test Reference..... EN 14683: 2019

Test Result..... Please refer to the following pages

Written by:

Inspected by:

Yawei li Approved by

Date:

020-04-14

2020 - 04 - 14 Da

Date:

CERTI

BEFITLAB TEST TECHNOLOGY COMPANY LIMITED

Member of International Standards Certification (ISC) Group



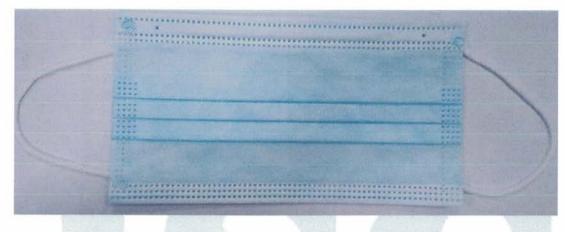
Report No.: BT20040301619-1

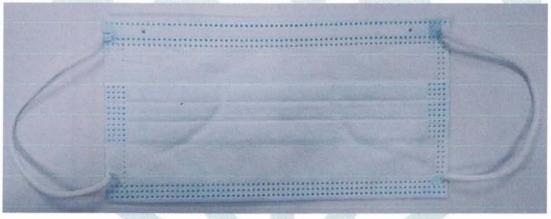
Page 2 of 7

1. Sample List

Manufacturer	Sample Name	Specification	Material	Lot
Anhui Jinrui Auto Parts Co. , Ltd.	Disposable Medical mask	17.5cm*9.5cm	7	/

2. Sample Photos







Report No.: BT20040301619-1

Page 3 of 7

Appendix 1: Bacterial Filtration Efficiency(BFE)

1.1.Reference Standard Item: EN 14683-5.2.2 BFE

1.2. Environmental Condition: 23°C, 60%RH

1.3. Strain, Medium and Reagent information:

Staphylococcus Aureus (ATCC6538);

Peptone Agar Medium (20191205);

Peptone Liquid Medium (1085071);

PH7.0 Sodium Chloride-peptone Buffer (1071461);

1.4. Test Parameters:

Air flow rate (double way) 57 L/min

Mean particle diameter of bacterial aerosol (3.0±0.3)μm

1.5. Result:

Plate 1(CFU) 58		Plate 2(CFU)			Dilution level		Concentration(CFU/mL) 5.9×10 ⁵		
Negative	r	0	0	0	0	0	0	0	1
Control	р	0	0	0	0	0	0	0	
Positive	r	173	58	70	275	349	97	1022	1
Control 1	р	227	63	77	465	824	111	1767	
Positive	r	202	27	102	256	348	130	1065	1
Control 2	p	281	28	118	409	816	157	1809	
	r	0	0	0	0	1	0	1	99.94%
Sample 1	р	0	0	0	0	1	0	1	
G 1 2	r	0	0	1	0	0	1	2	99.89%
Sample 2	р	0	0	1	0	0	1	2	
	r	0	1	0	0	1	0	2	99.89%
Sample 3	p	0	1	0	0	1	0	2	
Sample 4	r	0	0	0	11	2	0	3	99.83%
	p	0	0	0	1	2	0	3	
G 1.5	r	0	0	0	3	0	0	3	99.83%
Sample 5	р	0	0	0	3	0	0	3	



Report No.: BT20040301619-1

Page 4 of 7

1.6. Sample after Test:



About 12 cm*12cm

Appendix 2: Differential Pressure (Delta P)

2.1.Reference Standard Item: EN 14683-5.2.3 Breathability

2.2. Environmental Conditions: 23.2°C, 51%RH

2.3. Test Parameters:

Air flow rate (double way)	8 L/min
Sample Diameter	φ25 mm
Test area	4.9 c m ²

2.4. Result:

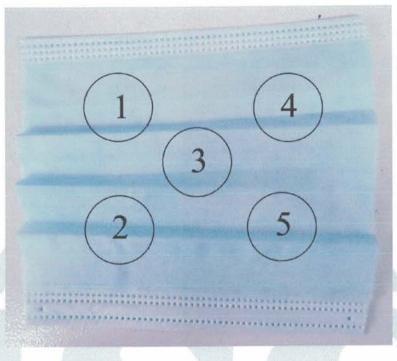
NO.	Position 1 (Pa)	Position 2 (Pa)	Position 3 (Pa)	Position 4 (Pa)	Position 5 (Pa)	Average (Pa)	Delta P (Pa/cm²)
Sample 1	125.7	112.5	128.8	114.1	125.0	121.2	24.74
Sample 2	105.8	108.4	115.0	115.5	109.9	110.9	22.64
Sample 3	118.5	112.4	130.5	127.3	119.6	121.7	24.83
Sample 4	114.2	116.5	111.8	112.5	107.6	112.5	22.96
Sample 5	105.0	130.3	110.6	130.8	107.1	116.8	23.83



Report No.: BT20040301619-1

Page 5 of 7

2.5. Sample after Test:



Test location of sample

Appendix 3: Splash resistance

EN14683-5.2.4 Splash resistance; ISO 22609: 2004 3.1. Reference Standard Item:

3.2. Environmental Condition: 23.2°C, 51%RH

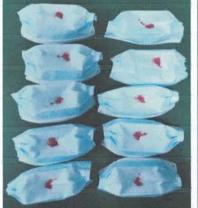
3.3. Test Parameters:

Pressure (KPa)	Velocity (cm/s)	Time (s)
16.0	550	0.66

3.4. Sample after Test:





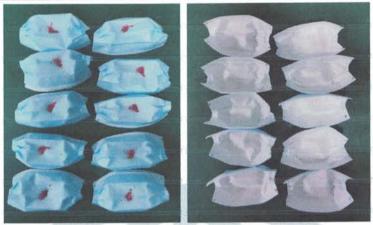






Report No.: BT20040301619-1

Page 6 of 7



Picture: 16.0 KPa Sample after Test

3.5. Result:

The samples were tested under pressure of 16.0kPa, no synthetic blood penetration on the medial side.

Appendix 4: Microbial cleanliness

4.1.Reference Standard Item: EN 14683-5.2.5 Microbial cleanliness (Bioburden); EN ISO 11737-1:2018

4.2. Reagents:

SDA (Lot No:20190912)

TSA (Lot No:20190613)

Sodium chloride-peptone buffer (Lot No:20190820)

4.3. Sample preparation:

5 samples were randomly selected for the experiment.

4.4. Test method:

Weigh each mask prior testing. The full mask is aseptically removed from the packaging and placed in a sterile 500 ml bottle containing 300 ml of extraction liquid (1 g/l Peptone, 5g/l NaCl and 2 g/l Tween 20). The bottle is laid down on an orbital shaker and shaken for 5 min at 250 rpm. After this extraction step, 100 ml of the extraction liquid is filtered through a 0,45 µm 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 Sabouraud Dextrose agar (SDA) with chloramphenicol for fungi enumeration. The plates are incubated for 3 days at 30°C and 7 days at 25°C for TSA and SDA plates respectively. The total bioburden is expressed by addition of the TSA and SDA counts.

4.5. Statistical method:

Count according to the principle of colony count.



Report No.: BT20040301619-1

Page 7 of 7

4.6. Results of the test:

Sample number	Weight g	Aerobic cfu/100ml	Fungal cfu/100ml	Total Bioburden cfu /sample	Total Bioburden cfu /g
1	3.3	20	4	72	21.8
2	3.2	19	3	66	20.6
3	3.1	21	2	69	22.3
4	3.1	19	3	66	21.3
5	3.2	18	4	66	20.6

***** End *****

Notice Items:

- 1. It is not valid if the report without our stamp.
- 2. This report must not be altered, increased or deleted.
- 3. The report is just responsible for the tested sample.
- 4. The sample(s) information was/were submitted and identified on behalf of the client.
- 5. Any questions on the report should be put forward within fifteen days since the date on which you receive the report, and overdue is inadmissible.
- 6. The report must not be partially duplicated except in full, without prior written approval of the company.
- 7. If any problem, please Call: 021-59100859 or Email: info@befitlab.com