



## Test Report

Date : 2020-06-02  
No. : HC20031052

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**Applicant(Code:01325315) :** Dongguan City Jiachuang Purification Technology Company Limited  
Building D, No.11, Street 2, Hengling Industry Zone, Wentang, East  
City, Dongguan, Guangdong, China

**Description of Sample(s) :** One submitted sample said to be Non-woven Face Mask 無紡布口罩.  
Model: #JC-P3001

Sample(s) Received Condition(s): In plastic bag under  
ambient temperature

**Date Sample(s) Received :** 2020-03-31

**Date Tested :** 2020-04-16 to 2020-06-02

**Investigation Requested :**

1. Bacterial Filtration Efficiency 細菌過濾效率 (BFE) %  
– *Staphylococcus aureus* 金黃色葡萄球菌 (ATCC 6538)
2. Particulate Filtration Efficiency 微粒過濾效率 (PFE) %
3. Differential Pressure 空氣交換壓力差
4. Flammability to Class 1 可燃性
5. Viral Filtration Efficiency 病毒過濾效率 (VFE) %



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LAU Yuk Kuen, Joey  
Authorized Signatory  
Chemical and Food Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

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### Method(s) Used:

1. ASTM F2100-2019 9.1 & ASTM F2101-2019
2. ASTM F2100-2019 9.3 & ASTM F2299-2017
3. ASTM F2100-2019 9.2 & EN 14683:2019 Annex C
4. 16 CFR 1610
5. ASTM F2101-2019 modified method

### Test Result(s):

1. Bacterial Filtration Efficiency 細菌過濾效率 (BFE) %  
– *Staphylococcus aureus* 金黃色葡萄球菌 (ATCC 6538)

Specimen(s)	Non-woven Face Mask 無紡布口罩
1	99.6%
2	99.4%
3	99.8%
4	99.9%
5	99.8%

Notes : - Control average 對照組的平均菌落數 : 2032 CFU  
- Mean particle size 平均粒徑 : 3.3µm  
- Testing side 測試面 : Outside of specimen 外側  
- Testing area 測試面積 : 49 cm<sup>2</sup>

2. Particulate Filtration Efficiency 微粒過濾效率 (PFE) %  
(0.1µm PSL ; Flow rate : 28.3 Litre/min)

Specimen(s)	Non-woven Face Mask 無紡布口罩
1	99.5%
2	99.6%
3	99.8%
4	99.4%
5	99.7%
Average	99.6%



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### 3. Differential Pressure 空氣交換壓力差

Specimen(s)	Non-woven Face Mask 無紡布口罩
1	4.7 mmH <sub>2</sub> O/cm <sup>2</sup>
2	3.8 mmH <sub>2</sub> O/cm <sup>2</sup>
3	4.5 mmH <sub>2</sub> O/cm <sup>2</sup>
4	3.5 mmH <sub>2</sub> O/cm <sup>2</sup>
5	3.7 mmH <sub>2</sub> O/cm <sup>2</sup>

Notes : - 1mmH<sub>2</sub>O = 9.8Pa  
- Air Exchange Pressure takes 5 masks for testing

### 4. Flammability to Class 1 可燃性

Specimen(s)	Non-woven Face Mask 無紡布口罩
External surface 外層測試面 -1	Did not ignited 沒有燃點
External surface 外層測試面 -2	Did not ignited 沒有燃點
External surface 外層測試面 -3	Did not ignited 沒有燃點
External surface 外層測試面 -4	Did not ignited 沒有燃點
External surface 外層測試面 -5	Ignited, but extinguished 可燃點，但可自然熄滅
Interior surface 內層測試面 -1	Did not ignited 沒有燃點
Interior surface 內層測試面 -2	Ignited, but extinguished 可燃點，但可自然熄滅
Interior surface 內層測試面 -3	Did not ignited 沒有燃點
Interior surface 內層測試面 -4	Ignited, but extinguished 可燃點，但可自然熄滅
Interior surface 內層測試面 -5	Ignited, but extinguished 可燃點，但可自然熄滅



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### 5. Viral Filtration Efficiency 病毒過濾效率 (VFE)%

Specimen(s)	Non-woven Face Mask 無紡布口罩
1	99.3%
2	99.7%
3	99.3%

Notes : - Control average 對照組的平均菌落數 : 1834 CFU  
- Mean particle size 平均粒徑 : 3.1 $\mu$ m  
- Testing side 測試面 : 外側  
- Testing area 測試面積 : 39.5 cm<sup>2</sup>

### Photo(s):



\*\*\*\*\* End of Test Report \*\*\*\*\*

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