MY CO2 SDN BHD 200601024684 (744438-M)

MY CO2 (PG) SDN BHD 201701042071 (1256244-P) | SAMM No. 384 16, LENGKOK KIKIK 1, TAMAN INDERAWASIH, 13600 PERAI, PENANG, MALAYSIA. Tel: +604 - 380 8282 Fax: +604 - 380 8280

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The Compliance Catalyst

# **Certificate of Analysis**

Lab Ref No.: **PL2006-C19425** SN: **RS1060347026243028** Page 1 / 3

Ami

Ooi Kah Wai Chemist

IKM No.: L/2452/7352/16 AN1: RA8272311879627748

**ICON MARKETING SDN BHD** 

700J, JALAN LINTANG, AYER ITAM 11500 GEORGETOWN PULAU PINANG

MALAYSIA

Sample Description: Face Mask

Challenge Flow Rate: 28.3 L/min Challenge level: 4.8 x 10^5 cfu Mean Particle Size: ~3.0 um Positive control: 1754 cfu for

Kee Kai Loon

Microbiologist & Biotechnologist

Food Analyst No: MJMM 0469 AN2: RA2738899075298446

 Date of Issue:
 2020-06-29

 Date of Received:
 2020-06-15

 Date of Completion:
 2020-06-29

Total CFU Recovered	Bacterial Filtration Efficiency %
67	96.2

#### **Antibacterial activity**

Test organism	Staphylococcus aureus ATCC 6538
Concentration of inoculum (cfu/ml)	1.3 x 10^5
Growth value F (F = log Ct – log C0)	5.7 – 4.6 = 1.1
Growth value G (G = log Tt – log T0)	1.6 – 4.8 = -3.2
Antibacterial activity value (A = F - G)	1.1 - (-3.0) = 4.3
Measuring method	Pour plate method
Incubation time	24 h

Efficacy of antibacterial property	Antibacterial value: A
Significant	2 < A < 3
Strong	A more than or equal to 3

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Ooi Kah Wai Chemist

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Microbiologist & Biotechnologist

Food Analyst No: MJMM 0469 AN2: RA2738899075298446

### **Antifungal activity**

Test organism	Aspergillus niger ATCC 16404		
Concentration of inovulum (cfu/ml)	2.0 x 10^5		
Growth value F (F= log Ct- Log C0)	5.9 - 4.9 = 1.0		
Growth value G (G= log Tt- Log T0)	4.8 - 5.1 = -0.3		
Antifungal activity value (A = F-G)	1.0 - (-0.3) = 1.3		
Measuring method	Pour plate method		
Incubation time	48 h		
A value	Explanation		
A< 1	No effect		
2>A>1	Fungistatic with small effect		
3>A>2	Fungistatic with medium effect		
A>3	Fungistatic with full effect		
Tt=0	Fungicidal effect		

Remark: The specification refer to standard specification for performance of materials used in medical face masks ASTM F2100-19.

Test Description	Unit	Result(s)	Spec	Method or Equipment Used
Bacterial Filtration Efficiency*	%	96.2	> 95	ASTM F2101
Differential Pressure (Breathability)*	mm H2O / cm <sup>2</sup>	1.01	< 5.00	MIL-M-36954C
Flammability*		Class 1	Class 1	16 CFR part 1610
Water Absorption*		Hydrophilic	Hydrophilic	Water dripping Test
Antibacterial Activity*		4.3	-	ISO 20743:2013 (E)
Antifungal activity*		1.3	-	ISO 13629-2:2014 (E)

- END OF REPORT -



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This Test Report is prepared according to our standard testing requirements and based solely on the samples submitted by you. We have made every reasonable effort to ensure the accuracy and reliability of the information provided herein. However, we shall not be deemed to have warranted or guaranteed the accuracy and reliability of the results contained in the Test Report under whatsoever circumstances. Neither shall we be liable and responsible for any loss or damage of whatever nature (direct, indirect, incidental, economical, punitive and consequential) caused or alleged to be caused by or in connection with and arising out of the use of or reliance on this Test Report.