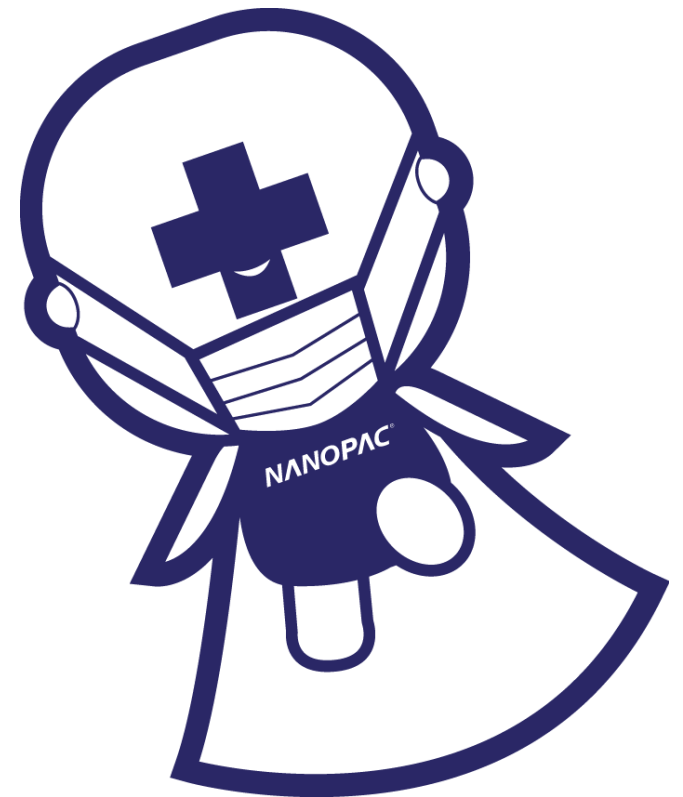


NANO-HEPA SURGICAL FACE MASK



Nano-Hepa Surgical Face Mask

NANOPAC
NANOPAC NANO-HYGIENE

Normal face mask:

- Normal face mask filter the air into and out from respiratory system but **TRAP** the dust, bacteria, fungi, and protozoa at the surface of the mask. The mask **DOEST NOT** kill the bacteria, fungi and protozoa.
- The size of virus is much smaller than the pores of the mask, therefore **UNABLE** to hinder the virus from penetrating through the mask.



Why Nano-Hepa Face Mask?

- Nano-Hepa Face Mask was proven **effective to kill** the bacteria, fungi, protozoa and virus in contact with the mask (refer test report in subsequent page).
- Although the virus was very small and able to penetrating through the mask, but they were killed when they reach the mask surface.
- The Nano-Hepa Face mask was **not harmful** and **non-toxic** to human (refer test report in subsequent page).

Nano-Hepa Surgical Face Mask

NANOPAC
NANOPAC NANO-HYGIENE

為什麼選擇納米高效微粒口罩？

普通口罩：普通的口罩過濾空氣進入呼吸系統，並在口罩表面捕獲灰塵，細菌，真菌和原生動物。口罩不能殺死細菌，真菌和原生動物。

病毒的大小遠小於面罩的孔，因此無法阻止病毒穿透面罩

面膜經證實可有效殺死與面膜接觸的細菌，真菌，原生動物和病毒。
(請參閱下一頁的測試報告)

-儘管病毒很小，並且能夠穿透口罩，但是當它們到達口罩表面時會被殺死。

Normal face mask:

- Normal face mask filter the air into and out from respiratory system but **TRAP** the dust, bacteria, fungi, and protozoa at the surface of the mask. The mask **DOEST NOT** kill the bacteria, fungi and protozoa.

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Why Nano-Hepa Face Mask?

- Nano-Hepa Face Mask was proven **effective to kill** the bacteria, fungi, protozoa and virus in contact with the mask (refer test report in subsequent page).

-Although the virus was very small and able to penetrating through the mask, but they were killed when they reach the mask surface.

-The Nano-Hepa Face mask was **not harmful** and **non-toxic** to human (refer test report in subsequent page).

Nano-Hepa 面膜对人体无害且无毒。 (請參閱下一頁的測試報告)

Nano-Hepa Surgical Face Mask

NANOPAC
NANOPAC NANO-HYGIENE

如何運作口罩

Knowing how it works



✓ **Kills bacteria** 殺死細菌

✓ **Self-cleaning** 自我清潔

• surface coating of nanoparticles 納米粒子的表面塗層



Antimicrobial properties 抗菌特性
Surface coating self-cleaning textile application. 表面塗層自清潔紡織品的應用

SGS Laboratory Certified constantly kills bacteria 99.9% functions and Non-Toxic Materials used

經過**SGS**實驗室認證的產品可不斷殺死**99.9%**的細菌並使用無毒材料

Nano-Hepa Surgical Face Mask

NANOPAC
NANOPAC NANO-HYGIENE



- Outer & Inner – Double SS(super soft suitable for medical use) 外部和内部-双层柔软（超柔软，用于医疗）
- Middle layer – Certified Tested BFE 99.9% under ASTM F2101-19 Standard 根据 **ASTM F2101-19** 标准，经外部，中间，内部认证的细菌和病毒过滤效率达到 **99.9%**

Three layers of protection 三層保護

無紡布+熔噴佈+無紡布

Non-woven fabric + meltblown fabric + non-woven fabric



Outer

Filter large particles and dust

過濾大顆粒和灰塵



Middle

Filter suspended particles and bacteria

過濾懸浮顆粒和細菌

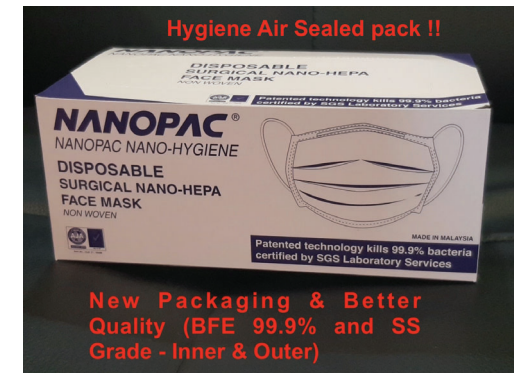


Inner

Non-woven fabric for comfort and fits

舒適舒適的無紡布

● dust ● bacteria ● haze ● exhaust ● smoke ● pollen



Nano-Hepa Surgical Face Mask

NANOPAC
NANOPAC NANO-HYGIENE


Comparison 比較方式	Normal 3 Ply In Market (普通三 層在市場上)	Nano-Hepa 3 Ply Face Mask (納米高效微粒三層 口罩)	N95/KN95
Inner & Outer SS Grade (內外部 超軟級)	X	✓	✓
BFE 99.9% ASTM F2101-19 Standard (標準的細菌過濾效率評 估方法)	≥95%	✓	✓
99.9% Bacteria Sterilization (Constantly) 99.9%細菌滅菌(恆定)	X	✓	X
ROHS Tested (Non-Toxic (有害物 質測試限制(無毒)	X	✓	✓
Nanotechnology Certified (納米技 術認證)	X	✓	X
Patented Technology (專利技術)	X	✓	✓
Made in Malaysia (在馬來西亞製 作)	✓	✓	X

Nano-Hepa Surgical Face Mask

NANOPAC
NANOPAC NANO-HYGIENE

99.9% 細菌滅菌 (恆定)

Nano-Hepa Face Mask: Anti Bacterial Test by SGS



食品實驗室-台北
FOOD LAB-TAIPEI
檢驗報告
Test Report

Report No : _____
Page : 1 of 2
Date : SEPTEMBER 04, 2008

The following merchandise was submitted & identified by the client as:

CTS Reference No.: _____
Sample Description: _____
Date of Sample Received: AUGUST 20, 2008
Date of Testing: AUGUST 22, 2008
Note: This report replaces RF/2008/81094

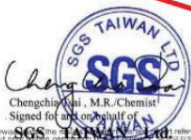
Test Method: JIS Z 2801

Test Result:

TEST BACTERIA	Staphylococcus aureus ATCC 6538P		R
	CFU/ml	LOG	
TREATMENT			
A	3.7×10 ⁵	5.57	
B	8.5×10 ⁴	4.93	2.95
C	9.5×10 ¹	1.98	

Note :
(sample A) compared to control sample (sample B)
 $= \{ (\text{Sample B} - \text{Sample A}) / \text{Sample B} \} \times 100\%$
 $= \{ (8.5 \times 10^4 - 9.5 \times 10^1) / 8.5 \times 10^4 \} \times 100\%$
 $= 99.9\% \text{ bacteria reduction}$


**99.9%
bacteria kill**



Chengchi Hsi, M.R., Chemist
Signed for and on behalf of
SGS TAIWAN LTD.


TW7067159

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食品實驗室-台北
FOOD LAB-TAIPEI
檢驗報告
Test Report

Report No : _____
Page : 2 of 2
Date : SEPTEMBER 04, 2008



NOTE: Treatment A: Average Of The Number Of Viable Cells Of Bacteria On Blank Sample At *24* Hr.
 Treatment B: Average Of The Number Of Viable Cells Of Bacteria On Blank Sample After *24* Hr.
 Treatment C: Average Of The Number Of Viable Cells Of Bacteria On Test Sample After *24* Hr.
 Antibacteria Activity(R)= (Log(B/C))
 The Value of Antibacteria Activity (R) shall not be less than 2.0 for the Antimicrobial Efficacy



Chengchi Hsi, M.R., Chemist
Signed for and on behalf of
SGS TAIWAN LTD.

TW7067158

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Nano-Hepa Surgical Face Mask

NANOPAC
NANOPAC NANO-HYGIENE

Nanopac Nano-Hepa Mask is certified
non-toxic and RoHS compliance

有害物質測試限制
(無毒)

SGS

Test Report Date: 2008/09/18 Page: 1 of 4
CTS Ref. CTS0804466/Nanopac

The following merchandise was (were) submitted and identified by the client as:

Sample Description :
Sample Receiving Date : 2008/09/12
Testing Period : 2008/09/12 to 2008/09/18

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to EPA Method 3051A for Cadmium Content. Analysis was performed by ICP.
(2) With reference to EPA Method 3051A for Lead Content. Analysis was performed by ICP.
(3) With reference to EPA Method 3051A for Mercury Content. Analysis was performed by ICP.
(4) With reference to EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/VIS Spectrophotometry.
(5) With reference to EPA Method 3540C/3550B for PBBs / PBDE Content. Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

SGS LABORATORY SERVICES (M) SDN. BHD.
CHONG KIEN LEN
B.Sc. (HONS) AMIC
LAB MANAGER

SGS Laboratory Services (M) Sdn. Bhd.
No. 27, Jalan Rajaguru, Valley 71, 81500 Skudai, Johor Bahru, 40400 Selangor Darul Ehsan, Malaysia
Company No. 090714 1-603-5121228 4-603-5121262 www.sgs.com

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Test Report Date: 2008/09/18 Page: 2 of 4

Test results by chemical method (Unit: mg/kg)

Test Items (1)	Method (refer to)	Result	MCL
Cadmium (Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkalis extraction	(4)	N.D.	2
Sum of Polybrominated Biphenyl (PBBs)	(5)	N.D.	5
Monobromodiphenyl		N.D.	5
Dibromodiphenyl		N.D.	5
Tribromodiphenyl		N.D.	5
Tetrabromodiphenyl		N.D.	5
Pentabromodiphenyl		N.D.	5
Hexabromodiphenyl		N.D.	5
Heptabromodiphenyl		N.D.	5
Octabromodiphenyl		N.D.	5
Nonabromodiphenyl		N.D.	5
Decabromodiphenyl		N.D.	5
Sum of Polybrominated Diphenylethers (PBDEs)		N.D.	5
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description :
As per page 3

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Test Report Date: 2008/09/18 Page: 3 of 4

Test Part Description :
Sample Description : NANO-HEPA FACE MASK



Note : (a) mg/kg = ppm
(b) N.D. = Not Detected
(c) MCL = Method Detection Limit

SGS LABORATORY SERVICES (M) SDN. BHD.
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Nano-Hepa Surgical Face Mask

NANOPAC
NANOPAC NANO-HYGIENE

Certificate No NVC000008



CERTIFICATE

NanoVerify Sdn. Bhd. and SIRIM QAS International Sdn. Bhd.
hereby certify and authorize the use of NANOVerified Mark by

Name of Company:
Address:

as complying with the assessment criteria and fulfilled all requirements of NANOVerify Programme for the following product:

NANO-HEPA MASK
PLEASE REFER TO ANNEX FOR DETAILS

Original Certification Date: 4/7/2017
Issue Date : 4/30/2017
Expiry Date : 4/7/2019



Dr. Rezal Khairi Ahmad
Dr. Rezal Khairi Ahmad
Chairman
NanoVerify Sdn. Bhd.



Mohd Azanuddin bin Salleh
Mohd Azanuddin bin Salleh
Managing Director
SIRIM QAS International Sdn.Bhd.

This Certificate is granted subject to the provisions of the NANOVerify Programme Agreement

Page 1 of 2 Serial No 000008

**Certified Nanotechnology
Product by SIRIM &
MOSTI**

Nano-Hepa Surgical Face Mask

NANOPAC
NANOPAC NANO-HYGIENE

SGS

TEST REPORT No. CRSSA/200741697-CA39658 REPORTED DATE: 03/07/2020
Job Ref. CRS/2020-06-11-034

Test results:

Test Part Description :

Sample Description: -PLEASE REFER TO PAGE 1-

Test Item(s):	Unit	Test Method	Result	MDL
Escherichia coli in 1g	-	United States Pharmacopoeia 62, Tests for Specified Microorganisms	Absent	-

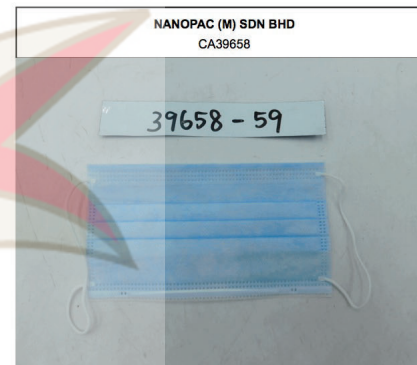
Note:
(a) N.D. = Not Detected
(b) MDL = Method Detection Limit
(c) mg/kg = ppm ; (0.1 wt% = 1000ppm)

SGS

TEST REPORT No. CRSSA/200741697-CA39658 REPORTED DATE: 03/07/2020
Job Ref. CRS/2020-06-11-034

Test Part Description :

Sample Description: -PLEASE REFER TO PAGE 1-



SGS authenticate the photo on original report only

United States Pharmacopoeia 62 test – Bacteria/Fungus killing effects

SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD

(Signature)

ONG SWEE LING
TECHNICAL SECTION HEAD - MICRO
FOOD ANALYST NO. MJMM0174

Test Report Form No.: SGS/TR/CRS/007, Ver: 5.0, Effective Date: 12/03/2020

Page 2 of 3

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SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD

(Signature)

ONG SWEE LING
TECHNICAL SECTION HEAD - MICRO
FOOD ANALYST NO. MJMM0174

Test Report Form No.: SGS/TR/CRS/007, Ver: 5.0, Effective Date: 12/03/2020

*** End of test report ***

Page 3 of 3

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