



Qingdao Hainuo Biological Engineering Co., Ltd. is a biotechnology enterprise integrating R & D, production and sales. It is affiliated to Qingdao Haishi Hainuo Group. The Group was founded in 2004 and now has more than 20 subsidiary corporations. Our headquarter is located in Jiangshan Industrial Park in Laixi Qingdao, with superior geographical location and convenient transportation, covering an area of 330,000 square meters, which is adjacent to Jiangshan Lake, Qingrong Light Rail, major highways, Qingdao International Airport and Qingdao Port, and It's one step away from Huashan International Golf Course.



We have several modern workshops and logistics storage facilities that meet international standards, equipped with advanced production facilities and high-precision testing instruments. There are nearly 2,000 employees including experts, professors and licensed pharmacists from the Chinese Pharmaceutical Association. Technical support and collaboration are provided by many scientific research institutions and companies from USA, Germany and Taiwan, China.











Clean Workshop

















Production

Line

Detecting

instrument









Experts of the Thousand Talents Plan



Professor Hui Miyu's patented products, B-HA (active hyaluronic acid) toothpaste and nasopharyngeal spray, broadspectrum anti-bacterial anti-inflammatory, have been patented in the United States.

Professor Ning Xin's main research areas are nonwoven materials and equipment, hygiene and medical supplies, industrial textile composites, polymer drug release systems, environmental engineering functional fibers and materials.





Professor Jiang Guohui has presided over the topic of using nuclear technology to study new special effects of herbal active ingredients, which has received the support of the National Natural Science Foundation of China and the National Science Research Project Fund, and he has rich experience in pharmacology, toxicology, molecular biology and research and development of new drugs.





















Academician of the Canadian Academy of Engineering and National Chief Professor of Nanobiomaterials in Canada. The small nucleic acid anti-tumor drug research and development project led by Academician Chen is at the international advanced level in the field of nanobiomedicine technology. We cooperated with Academician Chen to establish Qingdao TC-Norder Biotechnology Co., Ltd. The company's project is progressing smoothly. It is planned to set up a workstation in Jiangshan and will achieve 40 million sales revenue in 2020.



Seeram Ramakrishna academician



Foreign academician of the Royal Academy of Engineering, Indian National Academy of Engineering, Academician of the Singapore Academy of Engineering. His research direction is the processing and surface functionalization of polymer composite materials, biocomposite materials, and electrospinning nanofibers. He has conducted original research in many scientific fields and made great contributions in the field of nanotechnology.



Guan huashi academician

Academician of the Chinese Academy of Engineering, an expert in China's marine medicine, an advocate of China's "blue drug bank", and a major developer of treating Alzheimer's disease with marine organisms. We cooperated with Institute of Marine Medicine and Biology of Qingdao Ocean University to set up Haisheng Health Technology Co., Ltd to jointly develop marine medicine products.





Haishi Hainuo Group has been repeatedly awarded as one of the "Top Three Enterprises in China's Band-Aid Industry", and cartoon Band-Aids pioneered the domestic band-aid industry. The company's main products are: face masks, wound stickers, medical infusion stickers, pressure-sensitive adhesive tape, medical disinfection cotton balls, medical disinfection cotton pads, trauma emergency kits, syringes, infusion sets, early pregnancy test paper, ovulation test paper, foot stickers, warm patch, medical antipyretic stickers, gauze bandages, disinfectant, dental floss sticks, hyaluronic acid toothpaste, medical care pads, ice pads, condoms, etc.



HYNAUT

海氏海诺

The group has successively won the honorary titles of "Contract-keeping and Credit-honoring Enterprise of Qingdao", "Excellent Private Enterprise of Qingdao", "Excellent Award of Shandong Famous Enterprise Expo", "Outstanding Brand in Medical Dressing Industry of China", "Excellent Private Enterprise of China".

Chairman Mr. Ma Zhaohui won the "Trailblazing Entrepreneur Award of Qingdao".

In 2010, the "HAINUO" trademark was rated as "Famous Trademark of Shandong Province", and the HAINUO Trauma Emergency Kit was rated as "Famous product of Shandong Province".

In 2012, the company was rated as "Laixi Outstanding Welfare Enterprise", "Top Three Most Innovative and Competitive Enterprises in China's Medical Device Industry" and "Qingdao High-tech Enterprise".

In 2013, the company was rated as "National Welfare Enterprise Demonstration Unit" by the China Social Welfare Association and "Qingdao Medical Dressing Engineering Technology Research Center". "Hainuo Hainuo" trademark was rated as "Shandong Famous Trademark", 2015 "HAINUO" brand was rated as "China Famous Brand".

In 2016, the company was named "Invisible Champion" Enterprise of Qingdao Industrial Enterprise.

In 2017, the company's product "Sterile patches" was rated as "Qingdao Specialized New Product", and the company was rated as Qingdao Specialized Special New Model Enterprise.























HYNAUT 海氏i语i若[®]

In 2008, the company reached a cooperation with American Warner Company, making the world-famous cat and mouse cartoon image become the endorsement of Hainuo products. In 2013, on the basis of "TOM and JERRY", the company successfully signed the "Superman" image to become the company's product image endorsement. Products of Hainuo have entered into thousands of households.























Qingdao Hainuo Biological Engineering Co., Ltd is on the

Name List of Medical Devices and Supplies Companies with Certification/Authorization from other Countries





CHINA CHAMBER OF COMMERCE FOR IMPORT & EXPORT OF MEDICINES & HEALTH PRODUCTS

http://www.cccmhpie.org.cn/





English 登陆 | 注册

请输入关键词进行搜索

取得国外认证和注册企业查询

首页

关于商会 -新闻中心 -

行业服务

权威发布 ~

商会会刊 ~

企业风采

开具不可抗力相关事实性证明

会员之家 -

65 加入商会

取得国外标准认证或注册的医疗物资和非医用口罩生产企业检索

检索

企业名称 (中文) 企业名称 (英文)

产品类别

统一社会信用代码

国外注册认证情况

青岛海诺生物工程有限公司

Qingdao Hainuo Biological Engineering Co., Ltd

青岛海诺

医用口罩

913702857180717488

欧盟CE

Medical Face Mask

EU CE

Qingdao Hainuo Biological Engineering Co., Ltd. under the group is a national white-listed enterprise for anti-epidemic materials, a special credit subsidy unit for financial credit granted by banks, and a white-listed enterprise for face mask approval by the State and Provincial Drug Administration.

中华人民共和国商务部 中华人民共和国海关总署 国家市场监督管理总局

公告

2020年第12号

关于进一步加强防疫物资出口质量监管的公告

在全球疫情持续蔓延的特殊时期,为更有效支持国际社会 共同应对全球公共卫生危机,现就进一步加强防疫物资质量监 管、规范出口秩序有关措施公告如下:

一、加强非医用口罩出口质量监管。自4月26日起,出口的非医用口罩应当符合中国质量标准或国外质量标准。

商务部确认取得国外标准认证或注册的非医用口罩生产企业清单(中国医药保健品进出口商会网站www.comhpie.org.cn动态更新),市场监管总局提供国内市场查处的非医用口罩质量不合格产品和企业清单(市场监管总局网站www.samr.gov.cn动态更新),非医用口罩出口企业报关时须提交电子或书面的出口方和进口方共同声明(参考附件1),确认产品符合中国质量标准或国外质量标准,进口方接受所购产品质量标准且不用于医

权威发布:口罩等防疫物资出口企业"黑名单"出炉!附2235家"白名单"企业清单!

○ 2020-04-26 17:08:00 □ 国际贸易 □置

昨天(4月25日)傍晚,商务部、海关总署和国家市场监督管理总局紧急发布2020年第12号公告,宣布进一步升级对包括非医用口罩在内防疫物资出口质量监管措施!

消息一出,业界哗然,这宣告了以瞒报,漏报,夹带和冲关等不合规口罩出口模式,已经完全行不通了! 合法合规和产品合格将是口罩出口唯一出路!

在这份最新的12号公告中,三部委特别给出了一份震惊业界的白名单和黑名单!这基本可以看是 合格口罩出口企业的一本通行证,也是伪劣口罩生产企业的一份通缉令!

63 辽械注准20202140108	一次性使用医用口罩	辽宁金凤凰服饰有限公司
64 辽城注准20202140118	一次性使用医用口罩	浩宁实业(沈阳)有限公司
65 鲁械注准20152640334	普通医用口罩	山东爱达医用制品有限公司
66 鲁椷注准20152640428	一次性医用口罩	临沂康利医疗器械有限公司
67 鲁械注准20162640455	一次性使用医用口罩	德州康迪医疗用品有限公司
00	医用 次性日辈	山赤界扬医疗科技市限公司
69 鲁械注准20162640494	一次性使用医用口罩(非外科用	青岛海诺生物工程有限公司
TO E PAILTE 20102010010	区/10日学	山水下水に対る西外市水本町
71 鲁械注准20172640395	一次性使用医用口罩	青岛科美生物工程有限公司
72 鲁械注准20172640652	一次性使用医用口罩(非外科用	山东朱氏药业集团有限公司
73 鲁械注准20172640889	一次性使用医用口罩	山东省聚成医疗器械有限公司
74 鲁械注准20182140392	一次性使用医用口罩	山东创新医疗器械科技有限公司
no lateral de la	I E O H O E S	
70	医用外科口罩	威海鸿宇无纺布制品有限公司
71 鲁械注准20152640383	医用外科口罩	青岛盛久医疗用品有限公司
72 鲁械注准20162640237	医用外科口罩	山东创新医疗器械科技有限公司
10 E VALL PER 1020 10100	医用外科古掌	(成州家达医疗用品有限公司
74 鲁械注准20162640493	一次性使用医用外科口罩	青岛海诺生物工程有限公司
10 音例红性20102040002	区用介行口旱	月 电上涨内区灯 607以日 154 以
76 鲁械注准20172640005	医用外科口罩	日照三奇医疗卫生用品有限公司
77 鲁械注准20172640350	医用外科口罩	山东省聚成医疗器械有限公司

一次性使用医用外科口罩

山东九尔实业集团有限公司





















We have achieved long-term strategic cooperation with more than 200,000 pharmacies and a large number of chain convenience stores in China. Our products not only enjoy high popularity and reputation in domestic market, but also exported to overseas, favored by European, American and other customers all over the world. In recent years, as the Group grows in size, our products, production lines, research& development teams are all growing. We are always at the forefront of the industry, committed to providing the world's people with the most cutting-edge products and best service.

Partners: China's top 100 chain pharmacies

































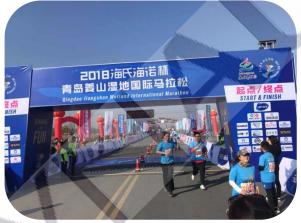


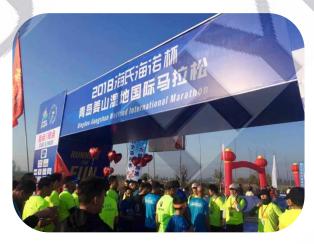




The company has undertaken many international marathons and equestrian competitions, and strives to promote the integration and development of sports, culture and technology.



















After the outbreak of the coronavirus COVID-19, the company invested more than 80 million yuan and added a number of new production lines for disposable medical face masks, KN95 protective masks, alcohol & iodine wipes and PE gloves production lines. Currently, the daily output of face masks reaches 3.6 million.

Related Reports from CCTV, Xinhua Net, Qingdao News

























HYNAUT

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The Group has donated to Wuhan & Qingdao Medical Team, Ban Ki-moon Foundation and other domestic and foreign anti-epidemic first-line donations including protective supplies, alcohol disinfection products and daily necessities, with a total value of more than 10 million yuan.



















Face mask Series

- HYNAUT brand.
- Direct sales from the factory to ensure high quality.
- Direct contract signing to ensure safe transactions.
- CE / FDA / TGA and other qualifications are complete.
 Various product test reports are available.

HYNAUT

海氏海诺[®]



Disposable Face Mask

non-woven + melt-blown + non-woven

- Personal Protective
- Medical EN14683 type I
- Medical EN14683 type IIR



Packing	Carton L*W*H	Gross Weight	Net Weight	Volume
1pcs/bag*200bags=200pcs/ctn	73.5*47*31	8.5	7.2	0.107
50pcs/box*40boxes=2000pcs/ctn	52*39*42.5	9.05	8	0.086





KN95 Protective Face Mask (Willow Leaf)

- 4-ply design
- non-woven + melt-blown x2 + non-woven
- Four layers of protection, multiple filtration, filtration efficiency ≥95%.

Willow-leaf cut, fits the face more comfortably.





Packing	Carton L*W*H	Gross Weight Net Weight	Volume
1pcs/bag*200bags=200pcs/ctn	29.5*25.5*22.5	1.9 1.55	0.017

HYNAUT 海氏海诺





KN95 Protective Face Mask (Folded)

- 4-ply design
- non-woven + melt-blown x2 + non-woven
- Four layers of protection, multiple filtration, filtration efficiency ≥95%.

Three-dimensional design, very comfortable to wear.





Packing	Carton L*W*H	Gross Weight	Net Weight	Volume
1pcs/bag*200bags=200pcs/ctn	34*20.5*22.5	1.9	1.55	0.016





KN95 Protective Face Mask (For kids)

- 4-ply design
- non-woven + melt-blown x2 + non-woven
- Four layers of protection, multiple filtration, filtration efficiency ≥95%.

Packing	Carton L*W*H	Gross Weight	Net Weight	Volume
1pcs/bag*200bags=200pcs/ctn	31.5*19.0*21.5	1.6	1.35	0.013

Qualification



医疗器械生产许可证

许可证编号鲁食药监械生产许 20120047 号

企业名称:青岛海诺生物工程有限公司

1. 青岛市莱西市姜山镇工业园广东 生产地址路1号;2. 青岛市莱西市姜山镇工 业园海氏海诺新工业园区1号

生产范围:!| 类: 6840 体外诊断试剂, 6864 医

用卫生材料及敷料※※

企业负责人:刘宝玉

法定代表人 麻兆晖

住 所:青岛市莱西市姜山镇工业园

发证部门:山东省食品药品监督管理局

有效期限:至 2021

年11

日

发证日期: 2018

月 08 日

国家企业信用信息公示系统网址:

an おかりけかかった担けり

国家市场监督管理总局监制

国家食品药品监督管理总局制









对外贸易经营者备案登记表

经营者中文名称						
	青岛海诺生物工程有限公司					
经营者英文名称	QINGDAO HAINUO	QINGDAO HAINUO BIOLOGICAL ENGINEERING CO.,LTD				
组织机构代码	718071748	经营者类型 (由备案登记机关填写)				
住 所	青岛市莱西市姜田	青岛市莱西市姜山镇工业园				
经营场所 (中文)	行动市美西市委山东江北區					
经营场所 (英文)	Jiangshan Iternation	al Industrial Area of Lai	ki Qingdao			
联系电话	053286463333	联系传真	053286460000			
邮政编码	266603	电子邮箱	hn@hainuocn.com			
工商登记注fifF [II]	2000 5-20	江南 1222 册号	#			
法办理工商登记的企	业还须填写以下内容	J. P. J. J. L.				
企业法定代表人姓名	麻兆晖	有效证件号				
注册资金	就仟万元	and a King of				
法办理工商登记的外	国(地区)企业或个位	本工商户 (独资经营者	f) 还须填写以下内容			
企业法定代表人 个体工商负责人姓名	rerere	有效证件引	U.S.			
企业资产/个人财产			(折美元			









ANNEX I Medical Device Products
Disposable Medical Face Mark

www.cmcmedicaldevices.com

USA FDA

EU CE

HYNAUT 海氏海诺



Australian Government

Department of Health Therapeutic Goods Administration

Public Summary

ARTG entry for

Australia and New Zealand Health Products Limited

Postal Address Suite 802 Level 8 167 - 169 Queen Street, Melbourne, VIC, 3000

22/04/2020

ARTG Start Date Product category Medical Device Class

Approval area Medical Devices

The inclusion of the kind of device in the ARTG is subject to compliance with all conditions placed or imposed on the ARTG entry. Refer Part 4-5, Division 2 (Conditions) of the Therepoid: Goods (Reficial Devices) Regulations 2002 for relevant information.
 Persacting conditions of the inclusion related to the device of the kind may lead to suspension or cance Valid on of the ARTG entry; may be a criminal offence, and of the premalities may apply.

Qingdao Hainuo Biological Engineering Co Ltd Jiashan Industrial Area of Jingshan Town Laixi

Qingdao, Shandong, 266603

1. Mask, surgical, single use

35177 Mas t, surgical, single use
Thir milk in to assist in the reduction of the spreading of germs and bacteria. Intended purpose

Specific Conditions

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Public Summary

KUL

시험성적서

성적서번호 : MY18-00275

이 시험결과

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Page 1 of 1
This is not an ARTG Certificate document.

The onus is on the reader to verify the current accuracy of the information on the document subsequent to the date shown.

Australia TGA

Korea KF94

The National Personal Protective Technology Laboratory (NPPTL)

NIOSH > NPPTL > Respirator Assessments to Support COVID-19 Response What's New on the NPPTL NPPTL Respirator Assessments to Support the COVID-Website 19 Response A to Z Index Updated May 8, 2020 For Respirator Users

International Assessment Results - Not NIOSH-approved

NPPTL has completed International Assessments for the products listed below.

NPPTL makes no representation as to the authenticity of the samples received and assessed. As part of its standard respirator approval process for NIOSH-approved respirators, NPPTL conducts a comprehensive quality assurance review of the quality process and manufacturing site. None of these reviews were conducted during this limited assessment. Further, no certificates of approval were provided with the samples. Therefore, validation of the claims that the product meets a particular international standard cannot be made.

For each model listed, ten respirators were submitted for evaluation. The samples were tested using a modified version of NIOSH Standard Test Procedure (STP) TEB-APR-STP-0059. Only particulate filter efficiency was assessed. The results of these tests are for the sample tested and may or may not be representative of a larger lot or population of similar respirators. The results of any filter penetration test can only be used to provide a check of the product's filter efficiency. No conclusions can be made regarding equivalency to N95 products that are NIOSH approved.

No certificates of approval were provided with the samples received. Therefore, the authenticity of the claims, that the product meets a particular international standard, cannot be validated.

These assessments are not a part of the NIOSH respirator approval process and will in no way lead to or preclude NIOSH approval through the official approval process.

Purvigor	KN95 Antibacterial Mask	GB2626		69.80	2020-33.1
Qingdao Hainuo Bioengineering Co., Ltd.	Hynaut KN95 Protective Face Mask	GB2626	98.37	97.98	2020-96.1

CDC official website announced that our KN95 protective mask passed NPPTL's test

ments were developed as an assessment of the filter efficiency for those respirators represented as certified b international certification authority, other than NIOSH, to support the availability of respiratory protection to US

ment of ear loop designs, indicate difficulty achieving a proper fit. While filter efficiency shows how well the filt-

These results are not to be used by manufact

Manufacturer	Model Number/Product Line	International Standard	Filtration Ef	Test Report	
	Number/Froduct Line	Standard	Maximum	Minimum	
Anhui Baishidun Protective Equipment Co., Ltd.	Baishidun FFP2	EN149, GB2626	53.00	46.10	2020-51.1
Anhui Changli Environmental Protection Technology Co., Ltd	KN95 Protective Mask	EN149	95.74	94.73	2020-50.1
Purvigor	KN95 Antibacterial Mask	GB2626	74.20	69.80	2020-33.1

l	Qingdao Hainuo Bioengineering Co., Ltd.	Hynaut KN95 Protective Face Mask	GB2626	98.37	97.98	2020-96,1
	Qingdao Maysheng Medical Devices Co., Ltd	KN95 Protective Mask (Self Suction Filter Respirator FFP2)	GB2626	99.59	99.30	2020-45,1
	Rizhao Sanqi Medical & Health Articles Co., Ltd.	3Q 9505	GB2626	99.39	96.95	2020-29.1
	San Jiao	1595-01	FN149	89.00	82.40	2020-104.1

NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Qingdao Hainuo Bioengineering Co., Ltd. Model Tested: Hynaut KN95 Protective Face Mask Date Tested: April 30, 2020

These findings pertain to the respirator Qingdao Hainuo Bioengineering Co., Ltd., Hynaut KN95 Protective Face Mask. The packaging for this product indicates that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respiratory

Ten respirators were submitted for evaluation. The samples were tested using a modified version of NIOSH Standard Test Procedure (STP) TEB-APR-STP-0059. This modified assessment plan can be found here.

No certificate of approval was provided with the samples received; therefore, the authenticity of the claims cannot be validated.

The maximum and minimum filter efficiency observed was 98.37% and 97.98%, respectively. All ten respirators measured more than 95%.

While the above-listed product classification has similar performance requirements to NIOSH-approved devices, NIOSH does not have knowledge about the sustained manufacturer quality system and product quality control for these products. NIOSH also does not have knowledge about the product's handling and exposures after leaving its manufacturer's control.

In addition, this product is an ear loop design, Currently, there are no NIOSH-approved products with ear loops; NIOSH-approved N95s have head bands. Furthermore, limited assessment of ear loop designs indicate difficulty achieving a proper fit. While filter efficiency shows how well the filter media performs, users must ensure a proper fit is achieved.

This assessment is not a part of the NIOSH respirator approval process and will in no way lead to or preclude NIOSH approval through the official approval process. This assessment was developed as an assessment of the filter efficiency for those respirator's represented as certified by an international certification authority, other than NIOSH, to support the availability of respiratory protection to US healthcare workers due to the respirator shortage associated with COVID-19. Only particulate filter efficiency was assessed.

The results provided in this letter are specific to the subset of samples that were provided to NPPTL for evaluation

These results will be used to update the CDC guidance for <u>Crisis Capacity Strategies (during known shortages)</u>

NPPTL COVID-19 Response: International Respirator Assessment

Evaluation of International Respirators

Test: Modified TEB-APR-STP-0059

Date Tested: April 30, 2020

Report Prepared: May 3, 2020

NATIONAL PRINCIPLE

National Personal Protective
Technology Laboratory

Pictures have been added to the end of this report.

Maximum Filter Efficiency: 98.37

Manufacturer: Qingdao Hainuo Bioengineering Co., Ltd.
Item Tested: Hynaut KN95 Protective Face Mask

Country of Certification: China (GB2626-2006)

Minimum Filter Efficiency: 97.98

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	12.0	1.64	1.64	98.36
2	85	12.7	1.99	1.99	98.01
3	85	12.4	1.63	1.63	98.37
4	85	12.7	1.72	1.72	98.28
5	85	12.5	1.78	1.78	98.22
6	85	12.9	2.02	2.02	97.98
7	85	12.7	1.66	1.66	98.34
8	85	12.7	1.87	1.87	98.13
9	85	13.5	1.68	1.68	98.32
10	85	12.5	1.87	1.87	98.13

- The test method utilized in this assessment is not the NIOSH standard test procedure that is used for certification of
 respirators. Respirators assessed to this modified test plan do not meet the requirements of STP-0059, and therefore
 cannot be considered equivalent to N95 respirators that were tested to STP-0059.
- Respirators tested may not be representative of all respirators with the same certification mark. NIOSH has no contro
 over suppliers and distributors of respirators certified by other national or international parties.
- This assessment is not a confirmation that it conforms with any or all of its specifications in accordance with its certification mark
- This assessment was not a part of the NIOSH approval program. These results do not imply nor preclude a future
 approval through the NIOSH respirator approval program.

NPPTL COVID-19 Response: International Respirator Assessment



NPPTL COVID-19 Response: International Respirator Assessment



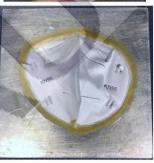
NPPTL COVID-19 Response: International Respirator Assessment





NPPTL COVID-19 Response: International Respirator Assessment





HYNAUT i角氏i角i着®

Test Reports









TEST REPORT



第1页,共6页

委托单位 : 青岛海诺生物工程有限公司QINGDAO HAINUO BIOLOGICAL ENGINEERING

委托单位地址 : 青岛市莱西市姜山镇工业园广东路1号NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTUIAL ZONE LAIXI CITY, QINGDAO, CHINA

样品名称: 防护口罩 KN95 Protective Face Mask

型号/规格/等级: C004

检验类别: 送样检验

检验地点: 龙华实验基地Longhua Experimental Base



批准人:

19 43 A

何行月

深圳市计量质量检测研究院 Shenzhen Academy of Metrology & Quality Inspection http://www.smg.com.cn

走等实验基础,强则市龙年区民治大河区旅游之114号 查询电话,6755-27528955 传真。6755-2752707 邮箱;518131 Longhum Experimental Bases No.114, Minkang North Road, Minzhi Avenze, Longhum District, Shenzhen Tel:6755-27528955

Important statement

1. 本院是深圳市人民政府依法设置的产品质量监督检验机构。系社会公益型非营利性技术机构。为各级政府执法部门进行 监督管理提供技术支持和接受社会各界的委托检验。

SMQ is a legal non-profit technical institute established by Shenzhen Municipal Government to undertake the quality supervision and inspection of products, and to provide technical support to relevant supervision and administration and also conduct commission test from the society.

2. 本院保证检验的科学性、公正性和准确性、对检验的数据负责、并对委托单位所提供的样品和技术资料保密。 SMQ is committed to assuring the scientificness, impartiality and accuracy of all tests carried out, responsibility for test

data gained, and keeping confidential of all test samples and technical documents provided. 3. 抽样按照本院程序文件 CX11-01 《抽样程序》和相应产品的检验细则的规定执行。

The sampling should be carried out according to the "sampling procedure" defined in the Procedure Document CX11-01 and relevant testing specifications.

4.报告无主检、审核、批准人签字、或涂改、或未盖本院"检验检测专用章"及验储章无效。未经本院许可。不得部分复 印、摘用或篡改本证书/报告内容。

Any report having not been signed by relevant responsible engineer, reviewer or authorized approver, or having been altered without authorization, or having not been stamped by both the "Dedicated Testing/Inspection Stamp" and the sealing stamp is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report/certificate is not permitted without the written authorization of SMQ.

5. 送样委托检验结果仅对来样有效:委托检验的样品信息及委托方信息均由委托方填写,本院不对其真实性及准确性负

The test results presented in the report apply only to the tested sample. The product information and the applicant information are provided by the customer and SMQ assumes no responsibility for their validity and accuracy.

6. 未经检验机构同意,样品委托人不得擅自使用检验结果进行不当宣传。

Any use of SMQ test result for advertisement of the tested material or product must be approved in writing by SMQ.

7. 无 CMA 标志的报告,仅供使用方内部参考,不具有对社会的证明作用。含粤字编号的 CAL 标志仅适用于产品标准和判定

The non-CMA report issued by SMQ is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose. CAL logo with symbol "Yue" is only relevant to product standards and reference

8. 对农产品监督抽查检验结果有异议的。可以自收到检验报告之日起五日内、向组织实施农产品质量安全监督抽查的农业 行政主管部门或者其上级农业行政主管部门申请复检。财食品监督检验报告有异议的。可以自收到检验报告之日起七个工 作日内向实施抽样检验的食品药品监督管理部门或者其上一级食品药品监督管理部门提出复检申请。对其它检验报告有异 议的,应于报告发出之日起十五日内向本院提出。

Any objections to the testing results of supervision sampling of agricultural products should apply for retest within 5 days upon receiving the test report to the administrative department of agriculture who organizes and implements agricultural products' supervision sampling or its superior department. Any objections to the testing results of supervision sampling of food should apply for retest within 7 days upon receiving the test report to the administrative department of food and drug who organizes and implements supervision sampling for food or its superior department. Any objections to other inspection report issued by SMQ should be submitted to SMQ within 15 days after the issuance of the test report.

9. 电子版证书/报告更改后将不被追回。委托方有义务将更改后的报告/证书提供给使用原报告/证书的相关方。

SMQ is not responsible for recalling the electronic version of the original report/certificate when any revision is made to them. The applicant assumes the responsibility of providing the revised version to any interested party who uses them.

投诉电话 Complaint hotline: 0755-86928949



样品名称: 防护口罩KN95 Protective Face Mask

生产单位地址: 青岛市莱西市姜山镇工业园 海诺大厦

报告编号。WT204025604

商标: HYNAUT 海底海湾

型号/规格/等级; C004

样品编/批号: 200401

生产日期: 2020-04-09

样品数量: 50只

排料抽占.

抽样人员。

客户信息:

检验信息:

生产单位: 青岛海诺生物工程有限公司

检前样品描述: 正常。Normal.

委托单位电话: 17561677800

委托日期: 2020年04月20日

判定依据: GB 2626-2006

检测依据: GB 2626-2006

检验结果见附页。

检验日期: 2020年04月20日 至 2020年04月27日

检验环境条件: (18~25) ℃ (30~70) %RH

检验类别: 送样检验

邮政编码。----

受检单位: 一

样品信息:

检验报告

委托单位: 青岛海诺生物工程有限公司QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD.

委托单位地址: 青岛市莱西市姜山镇工业园广东路1号NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTUIAL ZONE

抽样基数:

委托单号: 8249572

获样方式: 送样



第 2 页, 共 6 页 报告编号: WT204025604 第3页,共6页

检验项目	标准要求	英测结果	单项结论
Test Item	Requirement	Test Result	Conclusion
. 外观检查	100000000000000000000000000000000000000	(GB 2626-2006)	符合
appearance			Conformit
(GB 2626-2006)	5.2条规定	1#~2#符合	Channel Constant
	5.2Item Requirement	Conformity	
2. 过滤效率(%)	用氯化钠颗粒物检测:	(GB 2626-2006)	符合
iltration	NaC1	未預处理样品Unpretreated sample:	Conformit
efficiency	Non-oil aerosols	1#: 96.98	Contorni
(GB 2626-2006)	KN95≥95.0	2#: 96.53	
		3#: 96.54	
		4#: 96.60	
		5#: 96.87	
		6#: 96.72	
		7#: 96.36	
		8#: 96.77	1
		9#: 96.52	
		10#: 96.50	
		预处理样品Pretreated sample:	
		1#: 96, 33	
		2#: 96.60	
		3#: 96.57	
		4#: 96.19	
		5#: 96.47	
		KV类	
		KN-Series	
		温度Temperature: 22.3℃	
		相对湿度Relative humidity: 34,5%	
		颗粒物Aerosol chamber: NaCl	
		颗粒物浓度Concentration of aerosol	
		chamber: 15mg/m ³	
		(检测流量Flow meter rate:	l

主枪: 谢丹菊 南子菊 审核: 陈开江 第二十 江

Test result refer to next page.





检验报告

报告编号: WT204025604

第4页,共6页

检验项目 Test Item	标 准 要 求 Requirement	实测结果 Test Result	单项结论 Conclusion
3. 呼吸阻力(Pa) Resistance of inhalation and exhalation (GB 2626-2006)	总吸气阻力Total inhalation Resistance ≪350	(GB 2626-2006) 較く阻力Inhalation resistance: 未预处理样品Upretreated sample: 1# 2# 76.1 70.4 類处理样品Pretreated sample: 1# 2# 111.6 128.1	符合 Conformity
	总呼气阻力Total exhalation Resistance ≪250	呼气阻力Exhalation resistance: 末預使照样品Unpretreated sample: in 2 = 81.4 76.2 類处照样品Pretreated sample: l = 2 = 2 = 87.8 (通气量: 85L/min) (Plow: 85L/min)	k
4. 死腔 (%) Dead space		(GB 2626-2006)	符合 Conformity
(GB 2626-2006)	≥ 1	随弃式而單Disposable facepiece: 0.59 (温度Temperature: 23.8℃)	
5. 头带Head harness		(GB 2626-2006)	符合 Conformity
(GB 2626-2006)	随弃式面罩Disposable facepiece: 10N. 持续10s 10N. continuous 10s 不应出现滑脱、断裂 Noslippage、 breakage	未预处理样品Unpretreated sample: 1#~2#: 符合Pass 预处理样品Pretreatedsample: 1#~2#: 符合Pass	







检验报告

报告编号: WT204025604

检验项目 Test Item	标准要求 Requirement	实测结果 Test^Result	单项结论 Conclusion	
6. 可燃性 Flammability (GB 2626-2006) 续燃时间(s) Afterflame time	≤5	「GB 2626-2006」 随身式面視Disposable facepieces 未預处理料品Unpretreated samples 1= 2# 0.0 0.0 限处理料品Pretreated samples	符合 Conformity	
		第 2集 0.0 0.0 0.0 大模鼻尖位移速度: 60mm/s Displacement speed of Head mold nose tip: 60mm/s 野湾微波湯辺端20mm处的火焔温度: SISC Flane temperature at 20mm from the top of the burner; BISC		

1. 此报告以中文为准, 英文仅作参考、The Chinese version of this test report is the

standard one, the English version is only for reference.

2. 温度湿度预处理,顺序按下述条件处理:

The sequence of temperature and humidity pretreatment is as follows:

a) 在(38±2,5)℃和(85±5)%相对湿度环境放置(24±1) h

Place at (38 \pm 2.5) $^{\circ}$ C and (85 \pm 5)% relative humidity for (24 \pm 1) hours;

b) 在(70±3)℃ 干燥环境处理 (24±1) h

Treatment in dry environment at (70 \pm 3) °C for (24 \pm 1) hours;

c) (-30±3) ℃环境放置 (24±1) h

Place at (-30 ± 3) °C for (24 ± 1) hours:

样品温度经恢复至室温后5h,再进行检测

After the sample temperature is restored to room temperature for 5 hours, the test shall be carried out again.



检验报告

报告编号: WT204025604

第6页,共6页

3. 样品图片Photo(s) of the sample(s):













中国认可 国际互认 检测 TESTING CNAS L0599

Page 1 of 3

Test Report SL52025256537201TX Date:May 21,2020 QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD JIANGSHAN INDUSTRIAL PARK, LAIXI, QINGDAO, CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Disposable Medical Face Mask

Style No. : C01

Composition : (A)PP Non-woven, Melt-blown fabric

Sample Color : (A)Blue

Manufacturer : QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD

Country of Destination : EU

Supplier : QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : May 06, 2020

Testing Period : May 09, 2020 - May 21, 2020

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the

sample(s) tested, for further details, please refer to the following page(s).

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

中国・上海・徐汇区宜山路889号3号楼 邮輪: 200233

Sara Gan

Sara Guo (Account Executive)

SGS

Test Report SL52025256537201TX Date: May 21,2020 Page 2 of 3

Test Result

Medical Face Masks-Requirements and Test Methods

(EN 14683:2019)

Clause 5.2.2 Bacterial filtration efficiency (BFE)*

(EN 14683 :2019 Annex B)

1# 2# 3# 4# 5# (BFE), % >99.9 99.9 99.9 99.9

Remark: Performance Requirement: Type I≥95%, Type II≥98%, Type IIR≥98%

* This test standard is not within the accredited scope in SGS Shanghai testing centre, it is carried out by external laboratory accredited by CMA (China Metrology Accreditation).

Clause 5.2.3 Breathability (Differential Pressure)

(EN 14683 :2019 Annex C, Flow rate 8 I/min)

	1#	2#	3#	4#	5#
Differential pressure △P (Pa/cm²)	34	34	35	36	35

Remark: Performance Requirement: Type I<40 Pa/cm², Type II<40 Pa/cm², Type IIR<60 Pa/cm²

Clause 5.2.4 Splash Resistance

(ISO 22609 :2004, Pressure 16.0 kPa)

1#	2#	3#	4#	5#	6#	7#	8#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
9#	10#	11#	12#	13#	14#	15#	16#
Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass
17#	18#	19#	20#	21#	22#	23#	24#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
25#	26#	27#	28#	29#	30#	31#	32#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Number of P	ass:		31				
Overall result:			Acceptable				

Remark:

- 1) Performance Requirement Type I: N/A, Type II: N/A, Type IIR: ≥16.0kPa
- 2) Distance of the medical face mask target area surface to the tip of cannula is 300±10mm.
- 3) Condition and Test temperature (21±5)° C, relative humidity (85±10)%
- 4) An acceptable quality limit of 4.0% is met for a single sampling plan when 29 or more of the 32 tested specimens show pass results



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SGS

Test Report SL52025256537201TX Date: May 21,2020 Page 3 of 3

Clause 5.2.5 Microbial Cleanliness (EN 14683: 2019 Annex D)

1# 2# 3# 4# 55 CFU/g <1 <1 <1 <1 <

Remark: Performance Requirement: Type I≤30 CFU/g, Type II≤30 CFU/g, Type IIR≤30 CFU/g

Sample Photo

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report



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中国 · 上海 · 徐汇区宣山路889号3号楼 郎编: 200233 t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)











TEST REPORT

第1页,共5页

委托单位: 青岛海诺生物工程有限公司QINGDAO HAINUO BIOLOGICAL ENGINEERING

委托单位地址 : 青岛市莱西市姜山镇工业园广东路1号NO. 1 GUANGDONG ROAD, JIANGSHAN INDUSTUIAL ZONE LAIXI CITY, QINGDAO, CHINA

样品名称 : 见附页 Refer To Next Pages

型号/规格/等级: 非无菌 耳挂式平面型17.5cm*9.5cm

检验类别 : 送样检验

检验地点: 龙华实验基地Longhua Experimental Base



批准人:

何行月

何好用

深圳市计量质量检测研究院 Shenzhen Academy of Metrology & Quality Inspection http://www.smg.com.cn 电子解析电 - mail)。ktrabma, con. con. CMAH·招呼编号(CMA No.),2015/1907/202 & 2017/9001/022 走华宋珠是地:深期市茅华民保水还建筑标案上14号 查询电话。0755-2728995 传4: 0755-2728970 核4: 1 Longhua Experiental Base: No. 144, Minkang North Road, Minnih Arenes, Longhua District, Sheemben Tel:0785-2728999



检验报告

报告编号: WT204032177

检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
1. 外观	Requirement	(YV/T 0969-2013)	符合
Appearance		(11)1 0905-2013)	Conformity
(YY/T 0969-2013)	4.1条	1=~3=符合Conformity	Conformity
(11/1 0305-2013)	1. 1Requirement	1 - 3-14 Econioratty	1
	n. Thequirement		1
2. 结构与尺寸		(YY/T 0969-2013)	符合
Structure and size		(1)1 0909-2013)	Conformity
(YY/T 0969-2013)			Contorarty
1).结构Structure	1.2条	1=~3=符合Conformity	1
Distribute tare	1, 2Requirement	The state of the s	1
2).尺寸Size	4.2条	@ 2Deviation rate (%)	1
	4. 2Requirement	1# 2# 3#	1
		长度length: -0.6 -0.6 -0.6	1
		家/gwidth: -1.1-1.1-1.1	1
	1		1
3. 从类Nose clip		(YY/T 0969-2013)	符合
			Conformity
(YY/T 0969-2013)			100
	4.3.1条	1=~3=符合	1
	4.3.1Requirement	Conformity	1
	4.3.2条	长度length (cm):	1
	4.3.2Requirement	1= 2= 3=	1
		10. 2 10. 3 10. 2	1
	1		
4. 口罩带Wask string		(YY/T 0969-2013)	符合
		1000	Conformity
(YY/T 0969-2013)	100000000		
	4.4.1条	符合Conformity	1
	4.4.1Requirement		1
	4.4.2条	1#~3#:符合Conformity	1
	4.4.2Requirement	Annual Control of the	1
		(定負荷Fixed load: 10N,	1
	I	特技continuous: 5s)	1



检验报告

报告编号: WT204032177

第4页. 共5页

检验项目	标准要求	实测结果	单项结论
Test Item	Requirement	Test Result	Conclusion
5. 细菌过滤效率 (%)		(YY 0469-2011)	符合
Bacterial filtration	1		Conformity
efficiency (BFE)		1# 2# 3#	
(YY/T 0969-2013)	≥95	100 100 100	
6. 通气阻力(Pa/cm²)		(YY/T 0969-2013)	符合
Ventilation			Conformity
resistance		1# 2# 3#	
(YY/T 0969-2013)	≤49	39. 3 42. 7 39. 1	1
		(气体流量Gas flow: 8L/min)	
7. 微生物		(GB 15979-2002)	符合
Microorganisms		A DESCRIPTION OF THE PERSON OF	Conformity
(YY/T 0969-2013)			
细菌菌落总数	≤100	<4	
(CFU/g)			1
Total amount of			1
bacterial colony	1000000	2000	
大肠菌群	不得检出No detected	未检出Not detected	
Coliform group		010000000000000000000000000000000000000	
绿脓杆菌	不得检出No detected	未检出Not detected	
Pseudomonas			1
aeruginosa	THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY AND ADDRESS OF THE PERTY ADDR	and the second second	J
金黄色葡萄球菌	不得检出No detected	未检出Not detected	
Staphylococcus aureus		1	
溶血性链球菌	不得检出No detected	未检出Not detected	
行皿工工程平開 Streptococcus	TriffE mad detected	Mannot detected	
hemolyticus			
	不得检出No detected	未检出Not detected	
segrungar colony	Trigiz mad detected	William for serior red	
			1
	1		







Errata Corrige n° 3434 of 08/05/2020 to this Report which deletes and replaces the previous Test Report 361223 Date 06/05/2020 Sample nº 697240

Messrs QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD.

NO.1 GUANGDONG ROAD,

JIANGSHAN INDUSTUIAL ZONE LAIXI CITY, QINGDAO, CHINA

Sample Identification: XIAN5001 - DISPOSABLE SURGICAL MASK DATE OF MANUFACTURE 2020/03/17 - EXPIRATION DATE 2023/03/17

200317 - MANUFACTURER HAINUO

Sampling: Customer Sampling site: Customer Site

Transport: External Representate - Room Temperature Storage: Room Temperature

Recording Date : 20/04/2020 Beginning Test Date : 20/04/2020

MEDICAL FACE MASKS, REQUIREMENTS AND TEST METHODS

Evaluation of performance requirements of the medical face mask according to UNI EN 14683:2019

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Performance requirements for medical face masks (UNI EN 14683:2019, § 5.2.7):

Test	Type I ^a	Type II	Type IIR
Bacterial filtration efficiency (BFE), (%)	≥ 95	≥ 98	≥ 98
Differential pressure (Pa/cm²)	< 40	< 40	< 60
Splash resistance pressure (kPa)	Not required	Not required	≥ 16,0
Microbial cleanliness (cfu/g)	≤ 30	≤ 30	30

Type I medical face masks should only be used for patients and other persons to reduce the risk of spread of infections particularly, in epidemic or pandemic situations. Type I masks are not intended for use by healthcare professionals in an operating room or in other medical settings with similar

Summary of the test results:

Test	Result	Compliance by type		
Test	Result	Гуре І	Type II	Type IIR
Bacterial filtration efficiency (BFE), (%)	9,62	Passed	Passed	Passed
Differential pressure (Pa/cm²)	33	Passed	Passed	Passed
Splash resistance pressure (kPa)	Not performed			
Microbial cleanliness (cfu/g)	4	Passed	Passed	Passed

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Errata Corrige n° 3434 of 08/05/2020 to this Report which deletes and replaces the previous Test Report 361223 Date 06/05/2020

Bacterial filtration efficiency (BFE)

Principle and Normative References

Evaluation of efficiency of the medical face mask Scope material(s) as a barrier to bacterial penetration Normative References UNI EN 14683:2019

Experimental conditions

N° of medical face masks tested Dimensions of the test specimens 100 mm x 100 mm 49 cm² Size of the area tested Side of the test specimen facing the aerosol Inside Flow rate during testing 28.3 L/min Staphylococcus aureus ATCC 6£38 Test strain Specimen conditioning 21 ± 5 °C and 85 ± 5 % HR for 1h 37 ± 2 °C for 20-52 h Incubation conditions

Procedure:

Following procedures are performed for each of the five tested masks.

A representative test specimen of at least 100 mm x 100 mm is obtained from each mask. The specimen is clamped between a six-stage cascade impactor and an aerosol chamber. An aerosol of Staphylococcus aureus ATCC 6538 is introduced into the aerosol chamber and drawn through the mask material and the impactor under vacuum. The bacterial filtration enciency (B) of each test specimen is calculated, as percentage using the following formula:

 $B = (C - T) / C \times 100$

is the niean of the total plate counts for the two positive control runs;

is the total plate count for the test specimen.

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Test Report 361223

Date 06/05/2020

Sample n° 697240

Results

Table 3 summarizes results obtained with the Bacterial filtration efficiency (BFE) test.

Table 3

Parameter Test Method	U.M.	Results
Positive controls	cfu	1700-3000
Negative control	cfu	0
Bacterial filtration efficiency BFE, Sample 1 UNI EN 14683:2019 (Annex B)	%	99.5
Bacterial filtration efficiency BFE, Sample 2 UNI EN 14683:2019 (Annex B)	%	99,7
Bacterial filtration efficiency BFE, Sample 3 UNI EN 14683:2019 (Annex B)	% 0	99,5
Bacterial filtration efficiency BFE, Sample 4 UNI EN 14683:2019 (Annex B)	1.60	99,6
Bacterial filtration efficiency BFE, Sample 5 UNI EN 14683:2019 (Annex B)	Q. 9%	99,8
Bacterial filtration efficiency BFE, Mean UNI EN 14683:2019 (Annex B)	%	99,6

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cfu: colony forming units: Positive control: test run without test specimen; Negative control: test run without bacterial suspension.



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Test Report 361223

Date 06/05/2020

Sample n° 697240

Breathability

Principle and Normative References

Scope Evaluation of efficiency of the air permeability of the mask.

Normative References UNI EN 14683:2019

Experimental conditions

N° of medical face masks tested 5
General location of the areas tested 5
Size of the area tested 4,9 cm²
Side of the test specimen facing the airflow Air flow rate during testing 8 L/min

Specimen conditioning 21 ± 5 °C and 85 ± 5 % HR for 1h

Procedure

Following procedures are performed for each of the five tested masks.

A device, which measures the differential pressure required to thaw air through a specimen surface area of 4,9 cm² at a constant air flow rate of 8 L/min, is used to measure, the air exchange pressure of the medical face mask material. A differential maneure is used to measure the differential pressure required to move air through the specimen surface area.

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Test Report 361223

Date 06/05/2020

Sample n° 697240

Results

Table 4 summarizes results obtained with the differential pressure test.

Table 4

	Parameter Test Method	U.M.	Results
Differential pressure, Sample 1 UNI EN 14683:2019 (Annex C)		Pa/cm ²	34,2
Differential pressure, Sample 2 UNI EN 14683:2019 (Annex C)	/// 1	Pa/cm ²	943
Differential pressure, Sample 3 UNI EN 14683:2019 (Annex C)		Pa/cm ²	30,6
Differential pressure, Sample 4 UNI EN 14683:2019 (Annex C)		Pa/cm²	32,8
Differential pressure, Sample 5 UNI EN 14683:2019 (Annex C)		Pa/sm ²	32,6
Differential pressure, Mean UNI EN 14683:2019 (Annex C)		Pa/cm²	33

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Test Report 361223 Date 06/05/2020

Sample n° 697240

Microbial cleanliness (Bioburden)

Principle and Normative References

Evaluation of microbial cleanliness performance Scope requirements in medical face mask.

UNI EN 14683:2019 Normative References

Experimental conditions

N° of medical face masks tested Culture media: 1g/L Peptone, 5g/L NaCl, 2g/L Polysorbate 2 Extraction liquid (used volume)

Total viable aerobic microbial count TSA (Tryptic Soy Agar) Total yeasts and moulds count SDCA (Sabouraud Dextrose Agar

Chloramphenicol) Orbital shaker for 5 min at 250 roin Extraction method Membrane filtration (porc size 0,45 µm) Analytical method

Incubation conditions: Total viable aerobic microbial count 30 ± 1 °C for 3 days Total yeasts and moulds count 25 ± 1 °C for 7 days

Correction factor determined by the bioburden recovery efficiency

Following procedures are performed for each of the five tested masks.

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. 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 vey and the filter plated on SDCA for yeasts and moulds enumeration. The plates are incubated for 3 days at 30 °C and 7 days at 25 °C for TSA and SDCA plates respectively.

The total bioburden is expressed by addition of the TSA and SDCA counts adjusted by a correction factor calculated from the burden recovery efficiency.

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Doc.01 Modello 13S Rev.01 Del 17/02/2020



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Results

Table 5 summarizes results obtained with the microbial cleanliness (bioburden) tests.

Table 5

Parameter Test Method	U.M.	Results
Microbial cleanliness (Bioburden), Sample 1 ISO 11737-1:2018	cfu/mask*	11
Microbial cleanliness (Bioburden), Sample 2 ISO 11737-1:2018	cfu/mask**	< 7
Microbial cleanliness (Bioburden), Sample 3 ISO 11737-1:2018	cfu/mask*	×9.
Microbial cleanliness (Bioburden), Sample 4 ISO 11737-1:2018	cfu/mask*	22
Microbial cleanliness (Bioburden), Sample 5 ISO 11737-1:2018	cfu/mask#	11
Microbial cleanliness (Bioburden), Total	ct vg*	4

Values adjusted by the bioburden correction factor.



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Test Notes

MP: Laboratory-developed method

U.M.: Measurement Unit
Parameter Note: parameter information

The "Limits' column shows: the limits of quantification or describibility indicated with "LOQue LDF", the legal limits and for guide values agreed with the client. (The value indicated, file earness) are considered "Guide Value" or Delevense in its to be considered "Law Limits". Errats Corress/Supplemento: the change made to this test report are indicated in unidefined and faile front.

Frata Corress/Supplemento: the change made to this test report are indicated in unidefined and faile front.

The result of the quantitative evideries or surfaces, so bitanied by recalculation performed to the basis of the measure declared by the person who performed the

Quantitative microbiological tests:

Quantitative microbiological tests:
Quantitative microbiological tests: an epreformed in single replication in accordance with ISO 7218: 2007 / Amd1:
2013. Expression of the result by matrix Food / Suffaces in accordance with ISO 7218: 2007 / Amd1: 2013.
2014. Expression of the result by matrix Food / Suffaces in accordance with ISO 7218: 2007 / Amd1: 2013.
2015. Present 4: of Present 4: Of

For microbiological parameters the extended uncertainty of measurement is expressed as confidence interval (lower in its upper limit) with coverage factor K = 2 and with confidence level of 95%. Quantitative tests are performed in a single replica in accordance with ISO 7218-2077 / Amd 1: 2013.

For chemical parameters the extended uncertainty values refer to a 95% confidence interval and a coverage factor < 2

The description of Laboratory-developed methods (MP), test procedures (PP) methods normed and One ating Procedures (P.O.) are at your disposal in the laboratory.

In laboratory are available all the documentation to trace the technicians who carried out the tests, as well as the sampling and transport.

The results included in this Test Report refer only to the sample tested. In case the sampli, is of performed by our staff, the laboratory is not responsible for the sample information reported in this test report and the results refer only to the sample as received. This Test Report may not be partially reproduced, unless Tecnal's

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TEST REPORT

报告编号: #T20402566	第1页, 共4页
委托单位:	青岛海诺生物工程有限公司 QINGDAO HAINUO BIOLOGICAE-ENGINEERING CO., LTD
委托单位地址 :	青岛市莱西市姜山镇工业园广东路1号NO.1 GUANGPONG ROAD, JIANGSHAN INDUSTUIAL ZONE LAIXI CITY, QINGDAO, CHIM
样品名称:	防护口罩Protective Face Mask
型号/规格/等级:	无纺布平面型C001, C006
检验类别:	送样检验
检验地点:	龙华实验基地Longhua Experimental Base
	dialogic
深圳市计量质 (检验检测	
签发日期: 202	e年v5月08日 签名 :
NO.	

深期市计量质量检测研究院 Shenzhen Academy of MetroCoy & Quality Inspection http://www.amq.com.cn 年年6月で30-11. it.frashma.com.cn では18月10日 19 (2013 30.) 201719701732 4 201719901822 大学を実施出版、活動を実施的技術技術技術技術技術技術技術、中央电話、0755-27539055 特別、0755-27539057 40%。58831 Bacylon Copyr Tenerial Bacy Socil 14. Riskang Sorth Book, Right Horsen, Emph Detricts, Sameline 74 (0755-27539055



检验报告

报告编号: WT204025664 第2页,共4页

20,100 2	2007113
样品信息:	
样品名称: 防护口罩Protective Face Mask	
商标: HYNAUT海氏海诺	
型号/规格/等级: 无纺布平面型C001,C006	
样品编/批号: 200331	
生产日期: 2020-03-31	
生产单位: 青岛海诺生物工程有限公司	
生产单位地址: 青岛市莱西市姜山镇工业园	110
样品数量: 50只	抽样基数:
抽样地点:	CO.,
抽样人员:	Q
检前样品描述: 正常。Normal.	-01
客户信息:	ille
委托单位: 青岛海诺生物工程有限公司 QINGDAO H	MAINUO BIOLOGICAL ENGINEERING CO., LTD
委托单位地址: 青岛市莱西市姜山镇工业园广东路 LAIXI CITY, QINGDAO, CHINA	1号NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTUTAL ZONE
委托单位电话: 17561677800	VO.
邮政编码:	
受检单位:	X X X X X X X X X X X X X X X X X X X
检验信息:	CO.
委托日期: 2020年04月20日	委托单号: 8249571
检验类别, 送样检验	获样方式, 送样
检验日期: 2020年04月20日 至 2020年05月08日	
检验环境条件: (18-25) °C (30-70) %RH	
判定依据: T/CTCA 7-2019	255
检测依据: 见附页 refer to text pages	
检验结论:	
检验结果见附页	
Test result refer to next pages.	AND THE STREET
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	谢丹菊	非正常		陈开江	黄建飞	
主检:			审核:			



检验报告

报告编号: WT204025664 第3页,共4页

检验项目 Test Item	标准要求 Requirement	実測结果 Test Result	单项结论 Conclusion
1. 通气阻力 (Pa)		(YY 0469-2011)	符合
Ventilation		1# 2# 3#	Conformity
resistance CT/CTCA 7-2019)	≤80	34. 4 33. 7 37. 8	
CI/CICA 7-2019)		空气流量Flow: 30L/min	6.4
2. 颗粒物过滤效率		(YY 0469-2011)	符音
Particle	≥80	1# 2# 3#	Conformity
filtration		94. 23 93. 98 94. 66	
efficiency		09	
(%)		气溶胶颗粒Aerosol chamber:	
(T/CTCA 7-2019)		NaC1	
		气溶胶浓度concentration of	`
		Aerosol chamber: 15mg/m ³	
		温度Tempeyature: 24.7℃ 相对湿	
		度Relative humidity: 34.7%	
		:100	
3. 口罩带及口罩带与		CYY 0469-2011)	符合
口罩体的连接处断裂	:010		Conformity
强力	810		
Tensile Strength of mask string and connect part between mask string and mask (N)	Hainuo Bion		
(T/CTCA 7-2019)	≥10	1#~3#符合	
70.		Conformity	
200		(定负荷: 10N, 持续5s)	
JII.		(fixed load: 10N, lasting for	
9		5s)	



检验报告

报告编号: WT204025664

第4页,共4页

检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
4. 细菌过滤效率(%) Bacterial filtration		(YY 0469-2011)	符合 Conformity
efficiency (BFE) (T/CTCA 7-2019) ≥!	95	100 100 100	.6
			170

所ためた: 1. 此代で現中文角庫、英文仪作参考、The Chinese version of this test peport is the standard one, the English version is only for reference. 2. 我院状へMS认可能力能開来涉及ア/CTCA 7-2019;



以下空白 END OF REPORT

HYNAUT 海氏海诺









TEST REPORT



(替代WT204029174报告)

第1页,共4页

委托单位: 青岛海诺生物工程有限公司 QINGDAO HAINUO BIOLOGICAL ENGINEERING

委托单位地址 : 见附页 Refer To Next Pages

样品名称: 防护口罩 KN95 Protective Face Mask

型号/规格/等級: 0005

检验类别: 送样检验

检验地点: 龙华实验基地Longhua Experimental Base



批准人:

何行月

何好月

深圳市计量质量检测研究院 Shenzhen Academy of Metrology & Quality Inspection http://www.smq.com.cn Longhua Experimental Base: No. 114, Minkang North Road, Minzhi Avenue, Longhua District, Shenzhen Tel:0755-27528955



检验报告

报告编号: WT204032179

第3页,共4页

检验项目 Test Item	标准要求 Requirement	实 測 结 果 Test Result	单项结论 Conclusion
死腔(%) Dead space		(GB 2626-2006)	符合 Conformity
(GB 2626-2006)	≤1	随弃式面單Disposable facepiece: 0.56	
		(温度Temperature: 23.8℃)	

- 1. 此报告以中文为准, 英文仅作参考. The Chinese version of this test report is the standard one, the English version is only for reference.
- 2. 温度湿度预处理。顺序按下述条件处理:
- The sequence of temperature and humidity pretreatment is as follows:
- a) 在(38±2.5)℃和(85±5)\$相对湿度环境放置 (24±1) h
- Place at (38 \pm 2.5) T and (85 \pm 5)% relative humidity for (24 \pm 1) hours:
- b) 在(70±3) ℃ 干燥环境处理 (24±1) h
- Treatment in dry environment at (70 ± 3) °C for (24 ± 1) hours;
- c) (-30±3) ℃环境放置 (24±1) h
- Place at (-30 ± 3) C for (24 ± 1) hours;
- 样品温度经恢复至室温后5h. 再进行检测
- After the sample temperature is restored to room temperature for 5 hours, the test shall be carried out again.
- 3. 生产单位地址Manufacturer Address, 委托单位地址 Applicant Address: 青岛市莱西市姜山镇工业园广东路1号
- NO. 1 GUANGDONG ROAD, JIANGSHAN INDUSTUIAL ZONE LAIXI CITY, QINGDAO, CHINA.



检验报告

报告编号: WT204032179

第4页,共4页

4. 样品图片Photo(s) of the sample(s):



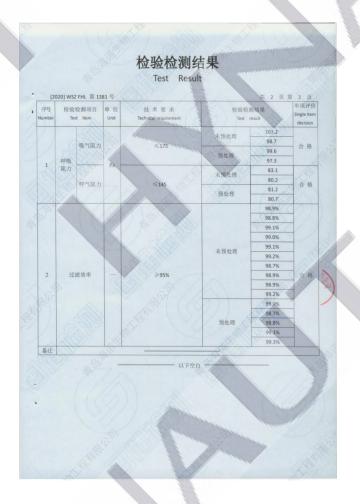
以下空白 END OF REPORT



HYNAUT 海氏海语



		测报告	
	Test	Report	
[2020] WSZ FHL 第 1	381号	#.	2 页 第 1 页
产品名称	防囊防护口罩	規格型号 Specification 商 标	柳叶型 L
	0 000	Brand	HYNAUT 海氏海诺
委托单位/地址/联系电话 Applicant/Add/Tel	青岛海诺生物工程有限公司/青岛	市莱西市姜山镇工业园/053	2-86463333
生产单位/地址/联系电话 Manufacturer/Add/Tel	青岛海诺生物工程有限公司/青岛	市莱西市姜山镇工业园/053	2-86463333
样品等级 Sample grade	KN95	样品编号 Sample number	GW 1381-2020
样品数量 Sample quantity	26 只	样品接收日期 Receiving date of sample	2020年02月28日
检验检测类别 Test type	委托检验	数号/批号/款号 Article number/Batch number/Style number	批号: 200203
检验检测日期 Test date	2020/02/28~2020/03/02	检验检测地点 Test site	本公司检验室
样品状态 Sample state	符合检验检测要求	10	100
检验检测 依据 Test standard(s)	GB 2626-2006《呼吸防护用品 自	吸过滤式防颗粒物呼吸器》	- A-9
检验检测项目 Test Items	过滤效率、呼吸阻力		
检验检测结论 Test conclusion	样品经检验、所检项目符合 Q/0.	1000	建位限技术有限 . 具似金粉结果渗刷第 2 证 验2表:用 享月 5 日
备 注 Note	委托方要求所检項目按照 Q/028 样品信息由委托方提供,本报告 报告有效期为1年		PIE O



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