INNOTIER Vertex Series

Certifications 測試證書

1. WEIPU Antiviral activity [HCoV-229E] Test Method ISO18184：2019 Test Report
   微譜 - 抗病毒活性測試 [人類冠狀病毒 229E] 測試標準 ISO18184:2019

2. The MicroStar Lab JIS 1902:2015 Test report – WTE80006
   The MicroStar Lab JIS 測試標準 1902：2015

3. SGS - EN 13758-1:2001+A1:2006 Textiles – Ultraviolet Protection Factor (UPF) – Test Report
   SGS - 紫外線防護系數（UPF）– 測試標準 EN 13758-1：2001+A1：2006

4. SGS - Air Permeability（FZ/T 73049-2014）Test Report
   SGS – 透氣率 測試標準 FZ/T 73049-2014

5. GTTC Tests for irritation and skin sensitization GB/T 16886.10-2017 Test Report
   廣州檢驗檢測認證集團 - 刺激與皮膚致敏試驗 GB/T 16886.10-2017

6. GTTC Testing and evaluation for anti-mosquitoes properties GB/T 30126-2013 Test Report
   廣州檢驗檢測認證集團 -防蚊性能的檢測和評價 GB/T 30126-2013

7. SGS - Flammability of Apparel Textiles ASTM D1230-17 Text Report
   SGS - 易燃性測試 測試標準 ASTM D1230-17

8. Toxicological Risk Assessments and LHAMA Evaluation
   毒理學風險評估和 LHAMA 評估

9. Intertek - Conformity with the requirements of GB18401-2010 and FZ/T 73049-2014 Qualified Product
   Intertek - 國家紡織產品基本安全技術范規 GB18401-2010 及 FZ/T 73049-2014

10. Oeko-Tex standard 100 22.HUS.98570
    Oeko-Tex 紡織品信心標準 100 22.HUS.98570

Test Report

Report No.：	WP-21106318-JC-01En
Sample	
Origin：	Customer Sample Delivery
Client：	INNOTIER LIMITED
Address:	2nd Floor, Astoria House, 62 Shaftesbury Avenue, London, England W1D 6LT, United Kingdom

Shanghai WEIPU Chemical Technology Service Co., Ltd

Test Report

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

Sample Name：INNOTIER woven recycle fabric with Ionic+

Sample Description：Anti-Viral PPE material

Type：WTE80006

Brand：INNOTIER

Applicable：INNOTOUCH gloves, garments and accessories

Testing information:

Date of Sample Received：2021-10-22

Testing Period：2021-10-27~ 2021-11-05

Test Item(s)：Selected test (s) as requested by client.

Test Criterion：Please refer to next page(s).

Test Result：Please refer to next page(s).

Complied by: Yingying Shao

Approved by: JJ Lee

Issued Date: 2021-11-12

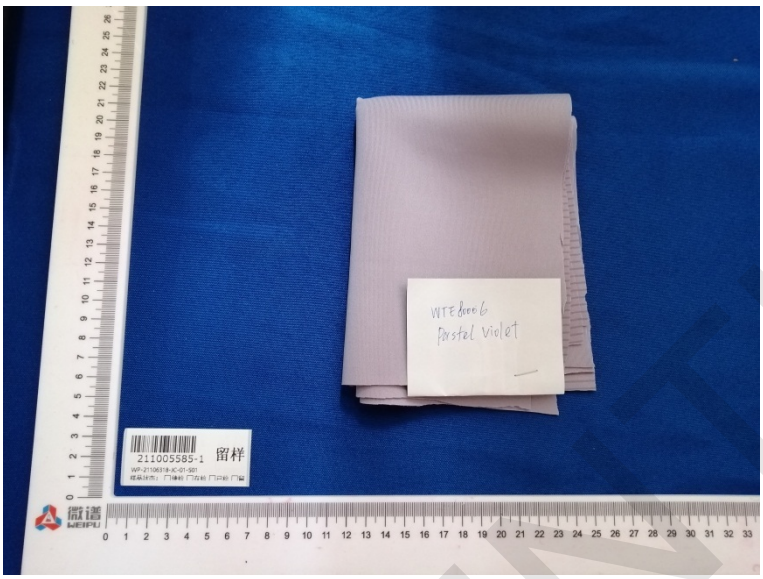
Test Item(s): *Antiviral Activity【HCoV-229E】
Test Standard and Method: ISO 18184:2019
Test Instruments: Biosafety Cabinet

Test Result(s):

Virus Types	NO	lg(Va_{0h})（lgTCID$_{50}$/ml）	lg(Vb_{30s})（lgTCID$_{50}$/ml）	lg(Vc_{30s})（lgTCID$_{50}$/ml）
HCoV-229E MDCK cells	1	6.52	6.42	4.51
	2	6.55	6.44	4.53
	3	6.57	6.47	4.56
Average Value of lgTCID$_{50}$/ml		6.55	6.44	4.53
Antiviral Activity Value		2.01		
Antiviral Activity Rate（%）		99.03		

End of the Page

Sample picture(s):



End of the Report

——DECLARE——

1. The report is invalid without the stamp of"Special Seal for Inspection or Testing" or without"Special Seal for the Report" or without the signature of the compiler and the approver.
2. No unauthorized changes, additions or deletions shall be made to the report.
3. Neither fragmented report nor its incomplete copy shall be deemed valid. The complete copy is invalid without the stamp of"Special Seal for Inspection or Testing" or "Special Seal for the Report".
4. Any queries on the report shall be presented to us within 15 working days after receipt of the report.
5. The results described here in this report are based on the sample(s) tested.The data and results shown in the report without CMA logo are not used as proof for society, only for internal uses.
6. The applicant takes full responsible for the truthfulness of the testing sample(s) and information related thereto.
7. Without the permission of the company, any party is prohibited from using the test results and the report for undue publicity.
8. With the permission of the client, the items with * in this report is/are subcontracted from other laboratory.

Client: Innotier Limited
62 Shaftesbury Ave – 2nd Floor,
Astoria House, London
England W1D 6LT, United Kingdom

MSL Report ID: R2021-421-3
Testing Completed: 6/21/2021
Testing Reported: 6/23/2021
A2LA Testing Cert: #2832.01

JIS L 1902:2015 Test Report

13047 Wandz WTE80006*

	Control - log C_o	Control - log C_t	Growth Value of Control (F)
Fabric Control	5.7	7.7	2.0

Sample - log T_o	Sample - log T_t	Growth Value of Sample(G)	Antibacterial Activity Value (A)	Log Reduction	Percent Reduction
5.7	5.0	-0.7	2.7	2.7	99.8

There was a greater than 2 log (2.0) difference between replicates for the test sample, 13047 Wandz WTE80006. A valid test as defined by the standard includes the difference of extremes between replicates to be less than 2 logs. The log values of recovered bacteria for the three replicates were 4.7, 5.3, and 3.1. This is a replicate extreme of 2.28.

Test Variables

Test Org and Starting Concentration:	S. aureus ATCC 6538 at 6.8 x 10^5
Sample Size:	0.75 gram ± 0.05
Method of Sterilization/Pre-Cleaning:	None
Control:	Untreated Fabric Control - ISO 105-F02 Adjacent Cotton
Inoculum Dilution Medium Used:	Nutrient Broth diluted 20x with DI water with 0.05% Triton X-100
Amount of Inoculum:	1.0 mL
Neutralizing Broth:	20 mL D/E Neutralizing Broth
Shaking Method:	Vortex mixer and Shaking by hand
Contact Time	24 hours
Incubation:	35 ± 2°C
Quantitative Measurement Method:	Plate Count Method
Deviations from Standard Test Method:	Sample size: 0.75 gram; Inoculum Amount: 1.0 mL; Addition to Inoculum Dilution Medium: 0.05% Triton X-100

*Results given relate only to items tested.

Approved By: Becky Landrum
Title: Senior Staff Scientist

JULIUS INDUSTRIES LIMITED
UNIT 2108-2109, 21/F, CCT TELECOM BUILDING,11 WO SHING STREET,FOTAN, SHATIN,NEW TERRITORIES,Hong Kong

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

Sample Description	:	One sample of knitted 38% Recycle Polyester 42% Polyester 9% Silver Ionic + Polyester 11% Spandex INNOTECHPPE2021301 cutting in Black.
Sample Color	:	(A) Black
Composition	:	(A) 38% Recycle Polyester 42% Polyester 9% Silver Ionic + Polyester 11% Spandex
Style Name	:	INNOTECHPPE2021301
Style No.	:	ITP0301
Country of Destination	:	Europe
Sample Receiving Date	:	Feb 26, 2021
Testing Period	:	Mar 01, 2021 - Mar 05, 2021
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).
Test Performed	:	Selected test(s) as requested by applicant

Signed for and on behalf of
SGS (Hong Kong) Limited

Liu Wang, Andy, Technical Manager

Test Result

Solar UV Protective Properties for Textile Material (EN 13758-1:2001+A1:2006)

Test conditions

1 Air temperature: 21±1°C
2 Relative humidity: 65±2% R.H.
3 Orientation of test specimen: Specimens were clamped on sample holder. Fabric face side is facing the incident UV light.
4 Test conducted in wavelength range 290-400 nm
5 Instrument: UV-VIS Spectrophotometer
6 No. of Scans: 8

Test sample: As Received

Test results:

Number of specimens:	1	2	3	4	5	6	7	8	**Mean**
Mean UVA transmission (%):	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	**0.05**
Mean UVB transmission (%):	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	**0.05**
Mean UPF:	2000	2000	2000	2000	2000	2000	2000	2000	**2000**
Std. Deviation:									**0.00**
Std. Error:									**0.00**
Sample UPF:									**>50**

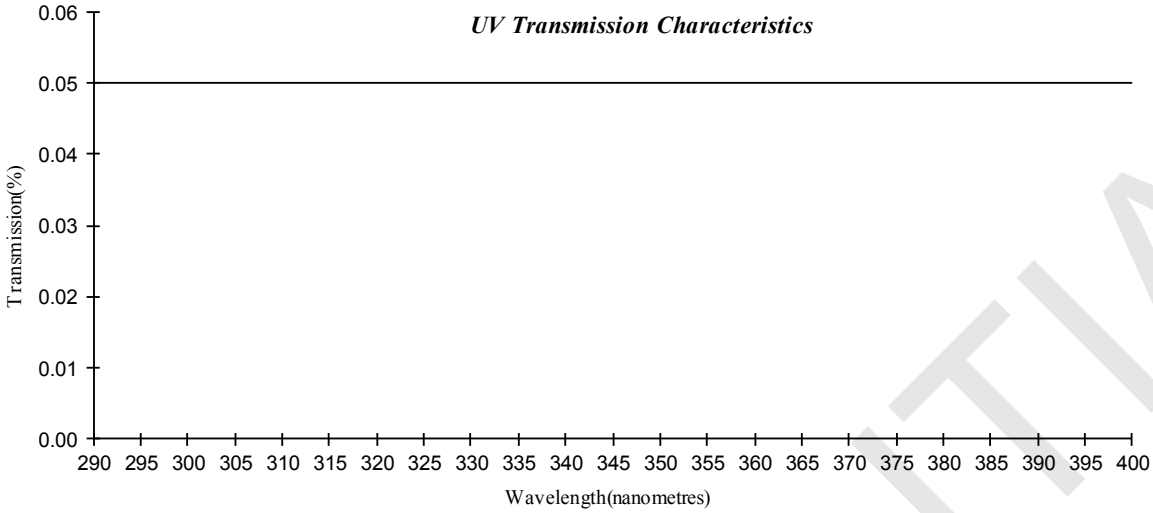
Comment: Sample complies with the UPF 40+ requirement

Remarks :

1. According to EN 13758-2:2003+A1:2006, in order to fulfill the requirement, below criteria should be met:
   The clothing assembly shall have the lowest UPF value larger than 40 and average UV-A transmission smaller than 5%. Clothing assembly meet design requirement.
2. The results given apply only to the colour and weight of fabric tested. Unless otherwise stated the fabric is tested dry and relaxed.
3. This UPF Rating is for the fabric and does not address the amount of protection which is afforded by the design of the article. The manipulations involved in garment manufacture such as stretching and sewing may lower the UPF of the material.
4. The protection offered by this fabric may be lessened :
   (i) At points where the fabric is in close contact with the skin such as across the shoulders
   (ii) If the fabric is stretched
   (iii) If the fabric is wet; and
   (iv) With time due to effects of normal wear.
5. For headwear: The item does not provide protection against reflected or scattered solar UVR.

Note : Graph is attached

Test Sample: As Received



End of Report

Sample Photo

委托单位 Consignor	研路天科技有限公司 INNOTIER LIMITED
委托单位地址 Consignor address	英国伦敦沙夫茨伯里大街 62 号阿斯托利亚楼 2 层 2ND FLOOR, ASTORIA HOUSE, 62 SHAFTESBURY AVENUE,LONDON,ENGLAND,W1D 6LT,UNITED KINGDOM
客供样品描述 Sample Description by Client	ANTI-VIRAL PPE MATERIAL 200X WASHES INNOTIER WOVEN RECYCLE FABRIC WITH IONIC+ IN BLACK FOR APPLICABLE: INNOSHIELD MASK,INNOTOUCH GLOVES,GARMENTS,HOME ITEMS AND ACCESSORIES
颜色/色号 Color	(A)BLACK
纤维成分/材质 Fiber Content/Material	(A)ANTI-VIRAL PPE MATERIAL 200X WASHES
款号 Style No.	WTE80006
制造商 Manufacture	GUANGZHOU JF GLOVES &GARMENT ACCESSORIES CO.,LTD
供应商 Supplier	JULIUS INDUSTRIES LTD(JIL)
最终用途 End Use	(A)APPLICABLE: INNOSHIELD MASK,INNOTOUCH GLOVES,GARMENTS,HOME ITEMS AND ACCESSORIES
样品数量 No. of Sample	(A)1pc
以上样品以及客户信息由客户提供及确认。 The above sample(s)/ client information was/ were submitted and identified on behalf of the client as.	
样品状态描述 Sample status	正常 Normal condition
检验类别/样品来源 Test Type/Sample Submitted by	委托送样检验 Entrust Test (Sample Submitted by client)
样品送达日期 Sample Receiving Date	2022-01-17
检测周期 Testing Period	2022-01-17 - 2022-01-20
检测依据 Document Accordance	详见检测结果页 Details please see test result page
判定依据 Judgement Accordance	FZ/T 73049-2014 针织口罩 - 合格品 FZ/T 73049-2014 Knitted mask - Qualified Grade
检测结论 Test Conclusion	本报告仅提供实测数据和单项判定， 详见检测结果/汇总页，检测结果仅适用于收到的样品。 The report only give the test result and Individual Judgment, detail please see follow page, the results only apply to the sample(s) as received.

FZ/T 73049-2014 针织口罩 - 合格品 / FZ/T 73049-2014 Knitted mask - Qualified Grade

检测项目 Test Items	A	备注 Remark
透气率 Air Permeability	符合 PASS	

通标标准技术服务有限公司广州分公司
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
批准人签署 Approved by:

梁玉文（批准签署人）
Wendy liang (Approved Signatory)

检测结果及评判
Test Results and Judgment

FZ/T 73049-2014 针织口罩 - 合格品 / FZ/T 73049-2014 Knitted mask - Qualified Grade

检测项目及测试方法 TestItem & Test method	判定 Judgment	样品 Sample	单位 Unit	技术要求 Requirement	测试结果 Test Result	
透气率 Air Permeability GB/T 5453-1997 试验面积 20cm², 压降 100Pa Test area 20cm², pressure drop 100Pa 备注：在 20cm²测试区域的检出限为 1 mm/s。 Remark: Detection limit 1 mm/s at 20cm² test area.	符合 PASS	**A**	mm/s	≥250	原样 Original 透气率 Air Permeability	264.3
			%	-	原样 Original 变异系数 Coefficient of Variation	3.26

样品照片
Sample Photo

此符合性声明仅基于本次实验室活动的实际值，未将本次实验室活动的结果不确定度影响计入。
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.

中英文版本如有歧异，概以中文版本为准。
If there is any inconsistency between English and Chinese versions, the Chinese version shall prevail.

报告结束
End of Report

Test Report

Scan to download 扫码下载报告

Verification Website: www.gttctech.com
Verification Code: XMQI-4139-34

No:230011997 Issue Date 签发日期:2023-02-09

Applicant: INNOTIER Limited
委托单位: 研路天科技有限公司
Address: 2nd Floor, Astoria House, 62 Shaftesbury Avenue, London, England W1D 6LT, United
地 址: Kingdom
英國倫敦沙夫茨伯里大街62號阿斯托利亞樓2層

Information confirmed by applicant 客户认定信息:

INNOTIER antiviral patented formula PPE Fabric woven with Ionic+200x Washes

INNOTIER 抗病毒专利配方PPE银离子面料+200次洗涤 100cm×100cm

Brand 商标: INNOTIER

Fabric No. 面料编号: WTE80006-1

Colour 颜色: Black

Way of use 使用途径: 医用口罩 Medical mask

Basis of judgement 判定依据:

Date Received/Date Test Started: 2023-01-13

样品受理/测试开始日期: 2023-01-13

Conclusion 结论:

A complete skin irritation test 一次完整皮肤刺激试验	---

Note: "M"-Meet the standard's requirement "F"-Fail to meet the standard's requirement
"---"-No comment
备注: "M" -符合标准要求 "F" -不符合标准要求
"---" -此项目不判定

Remark:
All the tested items are tested under the standard condition (except for indication).
本报告中检验检测项目均在相应标准规定的环境条件下进行(有注明的除外)。
Copies of the report are valid only re-stamped.
复印件、副本未重新加盖报告书确认章无效。
The experiment was carried out at No.1, Zhujiang Road, Panyu District, Guangzhou, Guangdong, P.R.China.
本报告检验检测地址为广州市番禺区珠江路1号。

Approved By(签发): LiQin Liu

刘丽琴 高级工程师

LiQin Liu Senior Engineer

广州检验检测认证集团有限公司 检验检测专用章 (GF2)

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电话:020-61994598/61994599
电话:020-37721161/66348638

Test Report

No:230011997

广州检验检测认证集团有限公司 检验检测专用章 (GF2)

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电话:020-61994598/61994599
电话:020-37721161/66348638

Test Report

No: 230011997

A complete skin stimulation test
一次完整皮肤刺激试验

Serial number 样品编号	230011997	Sample name 样品名称	Silver ion fabric 银离子面料
Specifications and models 规格型号	/	Sample lot number 样品批号	/
Date of manufacture 生产日期	/	Period of validity 有效期	/
Storage condition 贮存条件	Room temperature 室温	Sample quantity 样品数量	1 piece 1块
Test method 执行标准	GB/T 16886.10-2017		
Animal species 动物种属	New Zealand rabbits 新西兰兔	Animal class 动物等级	Common level 普通级
Animal origin 动物来源	Guangdong Medical Laboratory Animal Center 广东省医学实验动物中心(三水基地)	Animal production license number 动物生产许可证号	SCXK(Guangdong)2019-0035 SCXK(粤)2019-0035
Size of animal 动物数量	9 pieces 9只	Animal sex 动物性别	Male and Female (not fertile and not pregnant) 雄性、雌性（未育且未孕）
Initial trial weight 试验初始体重	2.0-3.3kg	Animal age 动物年龄	Adult 成年
Adaptation time 适应时间	At least 3 days ≥3天	Method of tagged 标记方法	Ear tag method 耳标法
Laboratory animal use Permit number 实验动物使用许可证号	SYXK(Guangdong)2022-0299 SYXK(粤)2022-0299	Feed source 饲料来源	Guangdong Medical Laboratory Animal Center 广东省医学实验动物中心
Ambient humidity 环境湿度(%)	51-59	Temperature range 温度范围(℃)	21.5-22.5
Illumination 光照	12h light; 12h darkness 12h光照；12h黑暗	Drinking water 饮用水	Sterile water 无菌水
Expected use 预期用途	Not provided 未提供		

广州检验检测认证集团有限公司 检验检测专用章 (GF2)

总部:广州市番禺区珠江路1号
花都实验室:广州市花都区狮岭镇旗岭河滨西路1号
电话:020-61994598/61994599
电话:020-37721161/66348638

Test Report

No: 230011997

Summary 试验总结

Take the test sample [Extract solution was prepared by extracting 0.9% sodium chloride injection and corn oil respectively. Drop 0.5mL of the sample extract solution onto a gauze block (2.5cm×2.5cm) and apply it to the skin of the test site on the back of the animal, and apply the corresponding extract medium to the skin of the control site on the back of the animal in the same way.] Then use non - irritant covering the area. The application time should be at least 4h. The skin conditions at the contact sites were observed and recorded at (1±0.1) h, (24±2) h, (48±2) h and (72±2) h after removal of the subjects. After 72 hours, the stimulation response scores of test samples and blank samples at (24±2) h, (48±2) h and (72±2) h were compared and calculated to determine the results of skin stimulation.

取试验样品【用0.9%氯化钠注射液和玉米油中分别浸提制备浸提液。将样品浸提液0.5mL滴加至纱布块（2.5cm×2.5cm）上，敷贴于动物背部试验部位皮肤，同法将相应的浸提介质作用于动物背部对照部位皮肤。】再用无刺激性绷覆盖敷贴部位。敷用时间至少为4h。于清除受试物后的（1±0.1）h、（24±2）h、（48±2）h和（72±2）h 观察并记录接触部位皮肤情况。72h后，比较计算试验样品和空白在（24±2）h、（48±2）h和（72±2）h 的刺激反应记分，判定皮肤刺激结果。

Results 试验结果	Under the conditions of this experiment, the primary irritation index of the polar extract was 0, and the type of skin irritation reaction was very slight. The primary irritation index of the non-polar extract was 0, and the type of skin irritation reaction was very mild. 在本试验条件下，试验样品极性浸提液的原发性刺激指数为0，皮肤刺激反应类型为极轻微；试验样品非极性浸提液的原发性刺激指数为0，皮肤刺激反应类型为极轻微。

1 Material information 材料信息

1.1 Principal reagent 主要试剂

Reagent name 试剂名称	Manufacturer/brand 生产厂家/品牌	Batch number 批号
0.9% sodium chloride injection 0.9%氯化钠注射液	Double Crane Pharmaceutical 双鹤药业	**2204063A**
Gauze 纱布	Jiaozuo Union Medical Materials Co., LTD 焦作联盟医用材料股份有限公司	**20220201**
Corn oil 玉米油	Guangzhou Hewei Pharmaceutical Technology Co., LTD 广州和为医药科技有限公司	**15971498**
Lauryl sodium sulfate 十二烷基硫酸钠	Aladdin 阿拉丁	**A2208445**

广州检验检测认证集团有限公司 检验检测专用章 (GF2)

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电话:020-61994598/61994599
电话:020-37721161/66348638

Test Report

No: 230011997

1.2 Instrument and equipment 仪器设备

Instrument Name 仪器名称	Instrument number 仪器编号
Electronic scales 电子天平	C3-2702
Thermostatic oscillator 恒温振荡器	C3-F0772
Pressure sterilizer 压力灭菌锅	C3-2764

1.3 Preparation of test solution 供试液制备

1.3.1 Extraction method 浸提液方法

At Client's request, the test solution shall be prepared in a sterile container in accordance with ISO 10993-12 as described in the following table.

应委托方要求，根据ISO 10993-12 的原则按下表的方法，在无菌容器内制备供试液。

Groups 组别		Is the sample sterile 样品是否无菌	Sampling methods 取样方式	Sample volume 取样量	Extraction ratio 浸提比例	Extraction condition 浸提条件	The state of the extract 浸提液状态
Sample 样品组	Polar solvent: 0.9% sodium chloride injection 极性溶剂：0.9% 氯化钠注射液	121℃, 30min high pressure steam sterilization 121℃、30min高压蒸汽灭菌	Random sampling 随机取样	60cm^2	6cm^2/mL	Temperature 温度: 37℃ Time 时间: 72h	Clarify 澄清
	Nonpolar solvent: corn oil 非极性溶剂：玉米油			60cm^2			
Negative control 阴性对照	Polar solvent: 0.9% sodium chloride injection 极性溶剂：0.9% 氯化钠注射液	/	Temperature 温度: 37℃ Time 时间: 72h				Clarify 澄清
	Nonpolar solvent: corn oil 非极性溶剂：玉米油	121℃, 30min high pressure steam sterilization 121℃、30min高压蒸汽灭菌					

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电话:020-61994598/61994599
电话:020-37721161/66348638

Test Report

No: 230011997

1.4 Laboratory 实验室

China National Accreditation Administration for Conformity Assessment (CNAS) laboratory accreditation and National Inspection and testing organization accreditation (CMA) accreditation, in line with the requirements of CNAS-CL01.

获得中国合格评定国家认可委员会（CNAS）实验室认可及国家检验检测机构资质认定（CMA）认可，符合CNAS-CL01规定的要求。

1.5 Personnel 人员

The test personnel are trained and qualified.

实验人员经过培训且具有资格。

1.6 Selection of laboratory animals 实验动物选择

Select healthy animals for testing.

选择健康的动物进行试验。

2 Test Steps 试验步骤

2.1 Labeling and weighing should be done before administration.

2.2 About 4-24h before the experiment, the hair on both sides of the spine of the experimental animals was cut off, without damaging the epidermis, and the hair removal range was 10cm×15cm.

2.3 Apply the sample to the specified part of the skin according to the method described in GB/T 16886.10-2017, and then fix it with non-irritating tape and bandage. Negative control was operated with the same method. The application time should be at least 4h. In the positive control group, the tested substance or test solution was replaced with a positive control product, and the other treatments were the same as the experimental group. The positive control test was repeated every six months to verify its sensitivity.

2.4 At the end of the contact period, remove the applied patch, mark the contact site with persistent ink, remove the residual subject with warm water or non-irritating solvent, and wipe it dry carefully.

2.5 The skin conditions at the contact sites were observed and recorded at (1±0.1) h, (24±2) h, (48±2) h and (72±2) h after the removal of subjects, and skin reaction scores were performed according to Table 1. If there is a persistent injury, it is necessary to extend the observation period to evaluate the reversibility or irreversibility of the injury, but the extension period should not exceed 14 days.

2.1在给药前应标记和称重。

2.2 试验前约4~24h，将实验动物背部脊柱两侧毛剪掉，不可损伤表皮，去毛范围10cm×15cm。

2.3 将样品按GB/T 16886.10-2017中的方法贴敷于规定部位皮肤，再用无刺激性胶布和绷带加以固定。阴性对照同法操作。敷用时间至少为4h。阳性对照组将受试物或供试液替换为阳性对照品，其他处理同试验组，阳性对照试验每半年重复做一次验证其敏感性。

2.4 接触期结束后取下敷贴片，用持久性墨水对接触部位进行标记，并用温水或无刺激性溶剂清除残留受试物，小心擦干。

2.5 于清除受试物后的（1±0.1）h、（24±2）h、（48±2）h和（72±2）h 观察并记录接触部位皮肤情况，按表1进行皮肤反应评分。如存在持久性损伤则有必要延长观察时间，以评价这种损伤的可逆性或不可逆性，但延长期不超过14d。

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Table 1 Skin irritation response
表1 皮肤反应记分系统

Skin reaction 皮肤反应	Score积分
Erythema and eschar form (ER) 红斑和焦痂形成	
Anerythema 无红斑	0
Slight erythema (barely visible) 轻微红斑（勉强可见）	1
Clear erythema 清晰红斑	2
Moderate erythema 中度红斑	3
Severe erythema (purplish red) to eschar formation without erythema grading 重度红斑（紫红色）至无法进行红斑分级的焦痂形成	4
Edema (ED) 水肿形成	
No edema 无水肿	0
Slight edema (barely visible) 轻微水肿（勉强可见）	1
Clear edema (swollen edges clear) 清晰水肿（肿起边缘清晰）	2
Moderate edema (swelling about 1mm) 中度水肿（肿起约1mm)	3
Severe edema (swelling more than 1mm and beyond the contact area) 重度水肿（肿起超过1mm，并超出接触区）	4
Highest integral 刺激最高记分	8
Other abnormalities in the skin area should be recorded and reported. 应记录并报告皮肤部位的其他异常情况。	

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3 Evaluation Criterion评价标准

After 72 hours, the total erythema and edema scores caused by (24±2) h, (48±2) h, and (72±2) h for each animal were added, and the total scores were divided by 6 (two test/observation sites, three time points) to calculate the primary irritation index for an animal. The primary stimulation index score of each animal was added and then divided by the total number of animals (3) to obtain the stimulation index of the test sample. The primary irritation index of the test material was subtracted from the blank control index to obtain the primary irritation score, and the types of skin irritation index were determined according to Table 2.

在72h评分后，分别将每只动物试验样品和空白在（24±2）h、（48±2）h和（72±2）h 引起的全部红斑和水肿积分相加，再将所有计分之和除以6（两个试验/观察部位，3个时间点）计算出某一动物的原发刺激指数。将每只动物原发刺激指数记分相加后再除以动物总数（3），得出试验样品刺激指数。试验材料原发性刺激指数减去空白对照指数得到原发性刺激积分，按表2判定皮肤刺激指数类型。

Table 2 Types of skin irritation index

表2 皮肤刺激指数类型

Average score 平均记分	Reaction type 反应类型
0 ~ 0.4	Very mild 极轻微
0.5 ~ 1.9	Mild 轻度
2.0 ~ 4.9	Moderate 中度
5.0~ 8.0	Severe 重度

4 Deviate 偏离

The test was carried out according to the test scheme without deviation.

本试验按试验方案进行，没有偏离的情况。

5 Result 结果

The observations for each animal are shown in Table 3-6.

每只动物的观察结果见表3-6。

6 Conclusion 结论

Under the conditions of this experiment, the primary irritation index of the polar extract was 0, and the type of skin irritation reaction was very slight. The primary irritation index of the non-polar extract was 0, and the type of skin irritation reaction was very mild.

在本试验条件下，试验样品极性浸提液的原发性刺激指数为0，皮肤刺激反应类型为极轻微；试验样品非极性浸提液的原发性刺激指数为0，皮肤刺激反应类型为极轻微。

The results and conclusions are applicable only to the samples tested. The agency did not comment further on the results. The client is responsible for interpreting whether these data are applicable to other samples. All procedures are carried out in accordance with the test specifications.

结果和结论仅适用于被检测的样品。检测机构没有对这些结果进行进一步的评价。委托单位负责解释这些数据是否适用于其他样品。所有的步骤是按照试验操作规范进行的。

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Table 3 Observation results of skin irritation test
表3 皮肤刺激试验观察结果

NO. 动物编号	Gender 性别	Weight 体重 (kg)	Extraction medium 浸提介质	Score 记分															
				1h				24h				48h				72h			
				Sample 样品组		Control 阴性对照组		Sample 样品组		Control 阴性对照组		Sample 样品组		Control 阴性对照组		Sample 样品组		Control 阴性对照组	
				ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿
1301	Female 雌	3.2	0.9% sodium chloride injection 0.9%氯化钠注射液	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1401	Female 雌	3.3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1501	Female 雌	3.3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1601	Female 雌	2.9	Corn oil 玉米油	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1701	Female 雌	3.0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1801	Female 雌	3.1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Table 4 Score summary of sample group
表4 样品组记分汇总

Leach liquor 浸提液	NO. 动物编号	Total scores of erythema and edema in experimental group 试验组 红斑和水肿记分总和	Total score of erythema and edema in negative control group 阴性对照组 红斑和水肿记分总和	Primary stimulus index 原发刺激指数	Test sample stimulation index 试验样品刺激指数	Reaction type 反应类型
0.9% sodium chloride injection 0.9%氯化钠注射液	1301	0	0	0	0	Very mild 极轻微
	1401	0	0	0		
	1501	0	0	0		
Corn oil 玉米油	1601	0	0	0	0	Very mild 极轻微
	1701	0	0	0		
	1801	0	0	0		

Table 5 Observation results of skin irritation test
表5 皮肤刺激试验观察结果

NO. 动物编号	Gender 性别	Weight 体重 (kg)	Groups 组别	Score 记分															
				1h				24h				48h				72h			
				Sample 样品组		Control 阴性对照组		Sample 样品组		Control 阴性对照组		Sample 样品组		Control 阴性对照组		Sample 样品组		Control 阴性对照组	
				ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿	ER 红斑	ED 水肿
1701	Male 雄	2.0	Positive control group 阳性对照组	2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
				2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
1801	Male 雄	2.0		2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
				3	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0
1901	Male 雄	2.3		2	2	0	0	2	2	0	0	2	2	0	0	2	2	0	0
				3	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0

Note: Positive control for skin irritation was performed every six months, data cited 229003514 (test period 2022.10.31-2022.11.04).
注：皮肤刺激阳性对照每六个月进行一次，数据引用229003514（试验周期2022.10.31-2022.11.04）

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Table 6 Score summary of positive group
表6 阳性组记分汇总

Groups 组别	NO. 动物编号	Total score of erythema and edema in positive control group阳性对照组红斑和水肿记分总和	Total score of erythema and edema in negative control group阴性对照组红斑和水肿记分总和	Primary stimulus index 原发刺激指数	Test sample stimulation index 试验样品刺激指数	Reaction type 反应类型
Positive control group 阳性对照组	1701	24	0	4.8	4.9	Moderate 中度
	1801	30	0	5		
	1901	30	0	5		
Note: Data reference 229003514. 注：数据引用229003514。						

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客户认定信息	INNOTIER antiviral patented formula PPE Fabric woven with Ionic+ 200x Washes INNOTIER 抗病毒专利配方PPE 银离子面料+200次洗涤 100cm×100cm 商标：INNOTIER 面料编号：WTE80006-1 颜色：BLACK 黑色 生产单位：广州市凯权服饰有限公司 ----------				
检验性质	委托检测	样品受理/测试开始日期	2023-02-28	报告签发日期	2023-03-10
判定依据	GB/T 30126-2013 《纺织品 防蚊性能的检测和评价》				
综合检验结论	---				
检验检测结果	检验检测结果详见附页				
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样品图片

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检验检测报告附页

No: 230035098

防蚊性能

测试方法： GB/T 30126-2013 10.1 驱避法

测试蚊虫： 白纹伊蚊

测试蚊虫来源：广州威佰昆生物科技有限公司

测试原理：

具有一定攻击力的蚊虫置于有试样的空间内，其中试样附于人体或供血器上，计数在规定时间内蚊虫在待测试样和对照样表面停落数，以驱避率来评价织物的防蚊性能。

测试设备：

驱避测试器
恒温培养箱
压力蒸汽灭菌锅
电子天平
生物安全柜
蚊笼

实验室环境条件和测试条件：

测试环境温度：26℃，相对湿度：65%
样品规格：4cm×4cm正方形
样品预处理方法：26℃放置10min
对照样：本实验室提供的纯棉对照样

测试步骤：

1、 攻击力测试：在蚊笼内放入300只白纹伊蚊，在志愿者手背暴露4*4cm皮肤，其余部分严密遮蔽。将手伸入蚊笼中，2min内前来停落的蚊虫多于30只者为攻击力合格，此人以及此笼蚊虫可用于驱避试验。

2、 驱避测试：选攻击力测试合格的4名志愿人员（男、女各2人），在志愿人员前臂内侧装上驱避测试器，然后在测试器中放入攻击力合格的白纹伊蚊30只，计数2min时待测试样和对照试样表面停落的蚊虫数。每位志愿人员试验1次，并计算出驱避率。

3、 驱避率计算公式：R=（B-T）/B×100%

其中：

R——驱避率，%

B——对照样蚊虫停留数的平均值

T——待测试样蚊虫停落数的平均值。

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检验检测报告附页

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测试结果：

样品	蚊虫数量（只）				
	1	2	3	4	平均值
对照样（B）	30	22	28	20	25
试验样（T）	15	10	11	8	11
驱避率R（%）	56.0				
效果评价标准	A级 驱避率＞70%，样品具有极强的驱避效果 B级 驱避率70%-50%，样品具有良好的驱避效果 C级 驱避率＜50%，＞30%，样品具有驱避效果				
结果评价	B级 样品具有良好的驱避效果				

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8. The report shall not be duplicated separately or partly, without prior written permission approved by GTTC, except duplicated in full version.

INNOTIER LIMITED
2ND FLOOR, ASTORIA HOUSE, 62 SHAFTESBURY AVENUE,LONDON,ENGLAND,W1D 6LT,UNITED KINGDOM

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

Sample Description	:	ANTI-VIRAL PPE MATERIAL INNOTIER WOVEN RECYCLE FABRIC WITH LONIC+ IN BLACK FOR INNOTOUCH GLOVES,GARMENTS AND ACCESSORIES
Sample Color	:	(A)BLACK
Composition	:	(A)ANTI-VIRAL PPE MATERIAL
End Use	:	(A)INNOTOUCH GLOVES,GARMENTS AND ACCESSORIES
Style No.	:	WTE80006
Manufacturer	:	GUANGZHOU JF GLOVES & GARMENT ACCESSORIES CO.,LTD
Agent	:	JULIUS GROUP HOLDINGS LTD
Supplier	:	JULIUS INDUSTRIES LTD (JIL)
Sample Receiving Date	:	Sep 30, 2021
Testing Period	:	Sep 30, 2021 - Oct 11, 2021
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).
Test Performed	:	Selected test(s) as requested by applicant

198 Kezhu Road,Scientech Park Guangzhou Economic&Technology Development District,Guangzhou,China 510663 t (86-20) 82155555 f (86-20) 82075169 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075169 e sgs.china@sgs.com

Conclusion	A	Remark
Flammability Test	PASS	

Remark(s) : PASS=Meet Client's/General Requirement

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Lily Wang (Account Manager)

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Test Result

Flammability of Apparel Textiles
(ASTM D1230-17)

Fabric Surface : Plain
Preliminary Testing : Face: Length DNI Width DNI
: Back: Length DNI Width DNI

Test results: Face length

	Original Burn Code		After Drycleaning & Washing * Burn Code
(1)	DNI	(1)	DNI
(2)	DNI	(2)	DNI
(3)	DNI	(3)	DNI
(4)	DNI	(4)	DNI
(5)	DNI	(5)	DNI
(6)	DNI	(6)	DNI
(7)	DNI	(7)	DNI
(8)	DNI	(8)	DNI
(9)	DNI	(9)	DNI
(10)	DNI	(10)	DNI

Flammability Classification : Class 1

Remarks
Class 1 Normal Flammability, textiles meeting these requirements are generally accepted by the trade as having no unusual burning characteristics.

Burn Code Description:
DNI = Did not ignite

Cleaning Instructions:
One time dry cleaning &AATCC 124-2011; Machine wash at water temperature (IV), 49±3℃, wash load of 3.63kg (8lbs), 66±1g of 1993 AATCC standard reference detergent, normal /cotton sturdy cycle, tumble dry, durable press, cool down time of 10min.

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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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INNOTIER LIMITED

Technical Report: **(8821)314-0051(R1)** Jan 14, 2022
Date Received: Nov 10 , 2021

INNOTIER LIMITED
2ND FLOOR, ASTORIA HOUSE, 62 SHAFTESBURY AVENUE, LONDON, ENGLAND W1D 6LT, UNITED KINGDOM

Sample Description:	INNOTIER CHAMPION SERIES WOVEN FABRIC WITH IONIC+/CHAMPION SERIES ANTI-VIRAL PPE MATERIAL 200X WASH		
Vendor:	N/A	Sample Size:	1
Manufacturer:	N/A	Style No(s):	WTE SERIES
Labeled Age Grade:	NOT RECORD	SKN/SKU No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	PO No.:	NOT PROVIDE
Client Specified Age Grade:	NOT SPECIFIED	Ref #:	NOT PROVIDE
Tested Age Grade:	N/A	Country of Origin:	NOT PROVIDE
UPC Code:	N/A	Assortment No.:	NOT PROVIDE
Test Starting Date:	NOV 10 , 2021	Test Finished Date:	NOV 15 , 2021

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- Classification of not being toxic (acute/chronic), corrosive, a skin/eye irritant, or strong sensitizer as defined in the 16 CFR 1500.3(b)(5), (7) – (9) (FHSA regulations), when used as intended or under circumstances involving reasonable foreseeable misuse, based on a Toxicological Risk Assessment of the submitted product formulation by a toxicologist.

- Classification of not being acute toxic, skin corrosive, serious eye-damaging, germ cell mutagenic, carcinogenic, reproductive toxic, respiratory/skin sensitizing or specific target organ toxic (single or repeated exposure) as defined in Annex I of sections 3.1.1, 3.2.1, 3.3.1, 3.4.1, 3.5.1, 3.6.1, 3.7.1, 3.8.1, 3.9.1 of Regulation (EC) no. 1272/2008.

Bureau Veritas Shenzhen Co., Ltd., Dongguan Branch
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Tel: +86-769-89982098
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RESULTS:

Exposure Assessment and Considerations:

Evaluation of **InnoTier Limited INNOTIER Champion Series woven fabric with Ionic+/Champion Series Anti-Viral PPE material 200 X wash** for requirements of U.S. Federal Hazardous Substance Act (FHSA) Regulations (16 CFR 1500), 16 CFR 1500 14(b)(8), LHAMA (16 CFR 1500.14), Products requiring Special Labeling – 16 CFR 1500.14, Banned Hazardous Substances – 16 CFR 1500.17,.Poison Prevention Packaging Act (PPPA) 16 CFR Part 1700, ASTM D4236, ASTM F963 Section 8.2 – Standard Consumer Safety Specification for Toy Safety, California Proposition 65, applicable sections U.S. Federal Hazardous Substance Act (FHSA) Regulations (16 CFR 1500), U.S. Federal Hazardous Substance Act (FHSA) Regulations (16 CFR 1500), 16 CFR 1500 14(b)(8), LHAMA (16 CFR 1500.14), Products requiring Special Labeling – 16 CFR 1500.14, Banned Hazardous Substances – 16 CFR 1500.17,.Poison Prevention Packaging Act (PPPA) 16 CFR Part 1700, ASTM D4236, ASTM F963 Section 8.2 – Standard Consumer Safety Specification for Toy Safety, California Proposition 65, applicable sections U.S. Federal Hazardous Substance Act (FHSA) Regulations (16 CFR 1500) and requirements for Toxicology Risk Assessments.

In making this evaluation Oneil M. Banks, Ph.D.., CIH, DABT (certified by the American Board of Toxicology in General Toxicology 1980-2005) followed the Consumer Product Safety Commission, Guidelines for Determining Chronic Toxicity of Products Subject to the Federal Hazardous Substances Act NOHSC:1008(2004) Chapters 4 & 5 health effects criteria for classifying a substance on the basis of its health effects.

According to information supplied **INNOTIER Champion Series woven fabric with Ionic+/Champion Series Anti-Viral PPE material 200 X wash** contains: Isophthalic acid terephthalic acid ethylene glycol polymer (CAS No. 24938-04-3) and Propanedial,2-(2-quinoxalinyl)- (CAS No. 205744-84-9).

After review of the supplied information, and risk assessment based on exposure. potential, acceptable daily intake and appropriate safety factors, Oneil M. Banks, Ph.D., DABT (certified by the American Board of Toxicology in General Toxicology1980-2005) finds **INNOTIER Champion Series woven fabric with Ionic+/Champion Series Anti-Viral PPE material 200 X wash** is not explosive, oxidising, extremely or highly flammable, very toxic, harmful, corrosive, sensitising, irritating to the skin or eyes, carcinogenic, mutagenic, toxic for reproduction or dangerous for the environment, and will not pose acute or chronic adverse health effects in humans when used for INNOSHIELD face mask, INNOTOUCH gloves, garments and accessories; AgDESMO garments and accessories .

INNOTIER Champion Series woven fabric with Ionic+/Champion Series Anti-Viral PPE material 200 X wash complies with requirements of applicable sections of REGULATION (EC) No /2009 OFTHE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 November 2009 on cosmetic products, Cosmetic Product Safety Report (1223/2009/EC), Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures, Toy Safety Directive 2009/48/EC, Directive 67/548/EEC, Directive 2006/121/EC, Directive 1999/45/EC, Regulation (EC) No 1907/2006 of the European Parliament, U.S. Federal Hazardous Substance Act (FHSA) Regulations (16 CFR 1500), 16 CFR 1500 14(b)(8), LHAMA (16 CFR 1500.14), Products requiring Special Labeling – 16 CFR 1500.14, Banned Hazardous Substances – 16 CFR 1500.17,.Poison Prevention Packaging Act (PPPA) 16 CFR Part 1700, ASTM D4236, ASTM F963 Section 8.2 – Standard Consumer Safety Specification for Toy Safety, California Proposition 65, applicable sections U.S. Federal Hazardous Substance Act (FHSA) Regulations (16 CFR 1500) and requirements for Toxicology Risk Assessments.

RESULTS:

Containers of materials larger than one ounce must have full precautionary labeling as determined by manufacturer. No other precautionary labeling is deemed necessary. Where containers of materials which require warning labels are packed in a point of sale package which obscures the warning statement, the point of sale package must have the signal word and the following wording: " Read cautions on individual containers carefully.

Note: The Toxicological Risk Assessments evaluation was performed at a Bureau Veritas CPS approved subcontract lab.

Remark:

This report is to Supersede BV (Dong guan) report No. (8821)314-0051 dated on Nov 16, 2021.

Oneil M. Banks, Ph.D., DABT
Toxicologist

END OF REPORT

REPORT NUMBER: GZHT02521595

Sample Photo

TEST REPORT
检测检验报告

202119001064

中国认可
国际互认
检测
TESTING
CNAS L0220

Number: GZHT02521595
报告号

Applicant: INNOTIER LIMITED
委托单位:

Date: Jan 24, 2022
日期:

Address: 2ND FLOOR, ASTORIA HOUSE,
地址: 62 SHAFTESBURY AVENUE, LONDON,
ENGLAND W1D 6LT, UNITED KINGDOM
研路天有限公司
英國倫敦沙夫茨伯里大街 62 號阿斯托利亞樓 2 層

Attn: Maggie Du
联系人

Sample Description:
One (1) Group Of Submitted Sample (9 pieces) Said To Be Knitted Face Mask (INNOTIER Woven Recycle Fabric With Ionic+ Anti-Viral PPE Material 200X Washes) In Black.
样品描述 样品数量: 1 组（9 个）
样品规格: 客户认定为针织黑色布口罩。

Applicant's Provided Care Instruction/Label: -
申请人所提供之水洗标签

Date Received 接收日期	:	2022-01-17
Date Tests Started 测试开始日期	:	2022-01-17
Buyer's Name 买家	:	-
Brand Name 品牌	:	INNOTIER
Manufacturer 制造商	:	Guangzhou JF Gloves & Garment Accessories Co.,Ltd
Agent 代理商	:	Julius Group Holdings Ltd
Type No 型号	:	WTE80006
Document Accordance 判定依据	:	FZ/T 73049-2014 《针织口罩》合格品 GB 18401-2010《国家纺织产品基本安全技术规范》A 类
Remark 备注	:	Sterilization or Not 是否为“灭菌”或“无菌”产品：否

批准
Approved by

高级经理 副总经理

LUCY/michaezheng

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202119001064

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TESTING
CNAS L0220

Number: GZHT02521595
报告号

Conclusion:
结论

Fibre Analysis(纤维含量)	*1
Formaldehyde Content(甲醛含量)	M
pH Value(pH 值)	M
Presence Of Odor(异味)	M
Colour Fastness To Washing (耐洗色牢度)	M
Colour Fastness To Rubbing (耐摩擦色牢度)	M
Colour Fastness To Perspiration (耐汗渍色牢度)	M
Colour Fastness To Water （ 耐水色牢度)	M
Colour Fastness To Saliva （耐唾液色牢度)	M
Air Permeability （透气率)	M
Azo Dyes(可分解致癌芳香胺染料)	M

Note： M = Meet Standard's Requirement
C = Conform To The Declared Fibre Content
# = No Comment
F = Below Standard's Requirement
* = See Remark
N/A = Not Applicable

备注： M = 符合标准要求
C = 符合公告的成分内容
# = 无评语
F = 不符合标准要求
* = 看注解
N/A = 不适用

*1: See Test Result/见测试结果

批准
Approved by

高级经理 副总经理

LUCY/michaezheng

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检测检验报告

Number: GZHT02521595
报告号

Test Conducted: 测试内容:	1.As Requested By The Applicant, For Details Refer To Attached Page (S) 以下测试依据申请人所要求进行,具体内容参见附页 2.All the tested item are tested under the standard condition (except for indication). 本报告中检测项目均在相应标准规定的环境条件下进行（有注明的除外）.
Remark: 备注:	1.The Chinese version of this test report is the standard one; the English version is only for reference. 此报告以中文为主英文仅作参考. 2.The report is valid with commission test only for the test samples in the case of delivering samples by clients. No copy test report is valid without original special stamp of the test body. 检验仅对检测样负责,复印件未重新加盖红色检验专用章无效。

批准
Approved by

高级经理 副总经理

LUCY/michaezheng

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TEST REPORT
检测检验报告

Number: GZHT02521595
报告号:

1 Fibre Analysis (FZ/T 01057.1~4-2007, FZ/T 01095-2002 Method B):
纤维含量 (FZ/T 01057.1~4-2007, FZ/T 01095-2002 方法 B):

	Marked 备注
Based On Moisture Regain Weight 根据公定回潮率重量	
89.6% Polyester 10.4% Elastane 89.6% 聚酯纤维 10.4% 氨纶	-

Remark : Moisture Regain Based On GB/T 9994-2018 Polyester 0.4% and Elastane 1.3%
备注：公定回潮率参照 GB/T 9994-2018 聚酯纤维 0.4% ,氨纶 1.3%

2 Formaldehyde Content (GB/T 2912.1-2009):
甲醛含量 (GB/T 2912.1-2009):

	Requirement 要求
Not Detectable 未检出	≤ 20 mg/kg

Remark: Detection Limit = 20 mg/kg
备注: 检出限 = 20 mg/kg

3 pH Value (GB/T 7573-2009, KCl):
pH 值 (GB/T 7573-2009, KCl):

	Requirement 要求
6.2	4.0-7.5

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Number: GZHT02521595
报告号:

4 Presence Of Odor (GB 18401-2010 Section 6.7):
异味 (GB 18401-2010, 6.7):

		Requirement 要求
	Negative 无异味	Negative 无异味

5 Colour Fastness To Washing (GB/T 3921-2008, Test method A (1), 30 Minutes Mechanical Wash At 40℃ In 0.5% Soap, Liquor Ratio: 50:1):
耐洗色牢度 (GB/T 3921-2008, Test method A (1), 40℃ 30 分钟机械洗涤,用 0.5%皂片,浴比为 50:1):

	Body 主身	Requirement 要求
Colour Change 颜色变化	4-5	≥ 4
Colour Staining 沾色		≥ 4
-Cotton 棉	4-5	
-Polyester 聚酯纤维	4-5	

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	String 绳子	Binding 包边	Requirement 要求
Colour Change 颜色变化	4-5	4-5	≥ 4
Colour Staining 沾色			≥ 4
-Cotton 棉	4-5	4-5	
-Polyamide 锦纶	4-5	4	

Remark : Unit : Grade
备注： 单位：级

6 Colour Fastness To Rubbing (GB/T 3920-2008)
耐摩擦色牢度 (GB/T 3920-2008)

	Body 主身	String 绳子	Binding 包边	Requirement 要求
Dry 干	4-5	4-5	4	≥ 4
Wet 湿	4-5	4-5	4	≥ 3-4

Remark : Unit : Grade
备注： 单位：级

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7 Colour Fastness To Perspiration (GB/T 3922-2013)
耐汗渍色牢度 (GB/T 3922-2013)

	Body 主身		Requirement 要求
	Acid 酸	Alkaline 碱	
Colour Change 颜色变化	4-5	4-5	≥ 4
Colour Staining 沾色			≥ 4
-Cotton 棉	4-5	4-5	
-Polyester 聚酯纤维	4-5	4-5	

	String 绳子		Requirement 要求
	Acid 酸	Alkaline 碱	
Colour Change 颜色变化	4-5	4-5	≥ 4
Colour Staining 沾色			≥ 4
-Cotton 棉	4-5	4-5	
-Polyamide 锦纶	4-5	4-5	

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	Binding 包边		Requirement 要求
	Acid 酸	Alkaline 碱	
Colour Change 颜色变化	4-5	4-5	≥ 4
Colour Staining 沾色			≥ 4
-Cotton 棉	4-5	4-5	
-Polyamide 锦纶	4-5	4-5	

Remark : Unit : Grade
备注： 单位：级

8 Colour Fastness To Water (GB/T 5713-2013)
耐水色牢度 (GB/T 5713-2013)

	Body 主身	Requirement 要求
Colour Change 颜色变化	4-5	≥ 4
Colour Staining 沾色		≥ 4
-Cotton 棉	4-5	
-Polyester 聚酯纤维	4-5	

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报告号:

	String 绳子	Binding 包边	Requirement 要求
Colour Change 颜色变化	4-5	4-5	≥ 4
Colour Staining 沾色			≥ 4
-Cotton 棉	4-5	4-5	
-Polyamide 锦纶	4-5	4-5	

Remark : Unit : Grade
备注： 单位：级

9 Colour Fastness To Saliva (GB/T 18886-2019):
耐唾液色牢度 (GB/T 18886-2019):

	Body 主身	Requirement 要求
Colour Change 颜色变化	4-5	≥ 4
Colour Staining 沾色		≥ 4
-Cotton 棉	4-5	
-Polyester 聚酯纤维	4-5	

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Number: GZHT02521595
报告号:

	String 绳子	Binding 包边	Requirement 要求
Colour Change 颜色变化	4-5	4-5	≥ 4
Colour Staining 沾色			≥ 4
-Cotton 棉	4-5	4-5	
-Polyamide 锦纶	4-5	4-5	

Remark : Unit : Grade
备注： 单位：级

10 Air Permeability (GB/T 5453-1997):
透气率 (GB/T 5453-1997):

		Requirement 要求
	313.3 mm/s	≥ 250 mm/s

Remark : Test Pressure = 100Pa, Test Area = 20cm²
备注：压降 = 100Pa, 试验面积 = 20cm²

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Number: GZHT02521595
报告号:

11 Detection of Amines Content in Dyestuffs
可分解致癌芳香胺染料
As per GB 18401-2010, GB/T 17592-2011 Were Used, Amines Content in Dyestuffs Were Detected by Gas Chromatography - Mass Spectrometry (GC-MS)
根据 GB18401-2010 的要求， 采用测试方法：GB/T 17592-2011， 可分解致癌芳香胺染料使用气相色谱-质谱联用仪（GC-MS）检测。

	Forbidden Amine 禁用芳香胺	CAS No. 化学文摘编号	Result (mg/kg) 结果（mg/kg） (1+2)	Requirement (mg/kg) 要求（mg/kg）
1	4-Aminodiphenyl 4-氨基联苯	92-67-1	ND	≤ 20
2	Benzidine 联苯胺	92-87-5	ND	≤ 20
3	4-Chloro-O-Toluidine 4-氯邻甲苯胺	95-69-2	ND	≤ 20
4	2-Naphthylamine 2-萘胺	91-59-8	ND	≤ 20
5	O-Aminoazotoluene 邻氨基偶氮甲苯	97-56-3	ND	≤ 20
6	5-nitro-o-toluidine 5-硝基-邻甲苯胺	99-55-8	ND	≤ 20
7	P-Chloroaniline 对氯苯胺	106-47-8	ND	≤ 20
8	2,4-Diaminoanisole 2,4-二氨基苯甲醚	615-05-4	ND	≤ 20
9	4,4'-Diaminodiphenylmethane 4,4′-二氨基二苯甲烷	101-77-9	ND	≤ 20
10	3,3'-Dichlorobenzidine 3,3′-二氯联苯胺	91-94-1	ND	≤ 20
11	3,3'-Dimethoxybenzidine 3,3′-二甲氧基联苯胺	119-90-4	ND	≤ 20
12	3,3'-Dimethylbenzidine 3,3′-二甲基联苯胺	119-93-7	ND	≤ 20
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane 3,3′-二甲基-4,4′-二氨基二苯甲烷	838-88-0	ND	≤ 20

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TEST REPORT
检测检验报告

Number: GZHT02521595
报告号:

14	P-Cresidine 2-甲氧基-5-甲基苯胺	120-71-8	ND	≤ 20
15	4,4'-Methylene-Bis(2-Chloroaniline) 4,4′-亚甲基-二-（2-氯苯胺）	101-14-4	ND	≤ 20
16	4,4'-Oxydianiline 4,4′-二氨基二苯醚	101-80-4	ND	≤ 20
17	4,4'-Thiodianiline 4,4′二氨基二苯硫醚	139-65-1	ND	≤ 20
18	O-Toluidine 邻甲苯胺	95-53-4	ND	≤ 20
19	2,4-Toluylenediamine 2,4-二氨基甲苯	95-80-7	ND	≤ 20
20	2,4,5-Trimethylaniline 2,4,5-三甲基苯胺	137-17-7	ND	≤ 20
21	O-Anisidine 邻氨基苯甲醚	90-04-0	ND	≤ 20
22	4-Aminoazobenzene 4-氨基偶氮苯	60-09-3	ND	≤ 20
23	2,4-Xylidine 2,4-二甲基苯胺	95-68-1	ND	≤ 20
24	2,6-Xylidine 2,6-二甲基苯胺	87-62-7	ND	≤ 20

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国际互认
检测
TESTING
CNAS L0220

Number: GZHT02521595
报告号:

Remark 备注: mg/kg = 毫克/千克
Detection Limit = 5 mg/kg
检出限 = 5 mg/kg
ND = Not Detected
ND = 未检出

Tested Components:
(1) Black/pitch black knitted fabric (body)黑色/深黑色针织布（主身）
(2) Pitch black elastic band (binding)深黑色松紧带（包边）

This test was conducted in Guang Dong Software Science Park
该测试在主场所科学城软件园进行检测

End of Report/报告结束

Intertek Testing Services Shenzhen Ltd Guangzhou Branch
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Noble Biomaterials, Inc.
300 Palm Street
Scranton, PA - 18505, UNITED STATES

Hohenstein Textile Testing Institute
GmbH & Co. KG
74357 Bönnigheim
Germany

Certificate

OEKO-TEX® STANDARD 100

Noble Biomaterials, Inc.

is granted the OEKO-TEX® STANDARD 100 certification
and the right to use the trademark.

SCOPE
Ionic+® filament yarn and staple fiber made of polyester/recycled polyester (recycled content 60 - 99 %: from post-consumer PET bottles) in clear or color silver; partly produced from material certified according to OEKO-TEX® STANDARD 100.

PRODUCT CLASS
I (baby articles) - Annex 4

STANDARD 100
22.HUS.98570
HOHENSTEIN HTTI

This certificate 22.HUS.98570 is valid until 29.02.2024.

SUPPORTING DOCUMENTS
- ✓ Test report : 23.1039268
- ✓ Declaration of conformity in accordance with EN ISO 17050-1 as required by OEKO-TEX®
- ✓ OEKO-TEX® Terms of Use (ToU)

Ivonne Schramm

Dipl.-Ing. (FH) Ivonne Schramm
Head of Certification Body OEKO-TEX®

Further compliance information (REACH, SVHC, POP, GB18401 etc.) can be found on oeko-tex.com/en/faq.

The certificate is based on the test methods and requirements of the OEKO-TEX® STANDARD 100 that were in force at the time of evaluation.

Boennigheim, 2023-03-08

TEST REPORT

Report No. : A00030399(2) Date : 2023-06-26

Application No. : L0017926(3)

Applicant : Julius Group Holdings Limited

Sample Description : Three (3) submitted samples stated to be T-shirt
Sample Status Upon Receipt: Room Temperature

Date Received : 2023-03-28.

Test Period : 2023-04-06 to 2023-04-06

Test Requested : Determine odour intensity for T-shirt.

Methodology : Refer to page 2.

Test Result : Refer to the results on page 3.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : Winnie

Tam Wing Kwun, Winnie
Assistant Manager

CMA Industrial Development Foundation Limited
Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatesting.org **Web Site:** http://www.cmatesting.org

TEST REPORT

Report No. : A00030399(2) Date : 2023-06-26

Application No. : L0017926(3)

Methodology :

The T-shirt were placed into a natural (odourless) gas filled glass dedicator chamber for 24 hours at a defined standard condition (temperature and humidity) for releasing any possible odour. Headspace air inside the chamber was then pulled into a 5L air bag and conduct an odour panel analysis.

Odour intensity of sample headspace gas was determined by a Dynamic Olfactometer (TO9) in accordance with the European Standard Method (EN13725). This European Standard specifies a method for the objective determination of the odour concentration of a gaseous sample using dynamic olfactometry with human assessors (panelists). This European Standard is applicable to the measurement of odour concentration of pure substances, defined mixtures and undefined mixtures of gaseous odorants in air or nitrogen, using dynamic olfactometry with a panel of human assessors being the sensor. The unit of measurement is the odour unit per cubic metre: OU_E/m^3. The odour concentration is measured by determining the dilution factor required to reach the detection threshold. The odour concentration at the detection threshold is defined as 11 OU_E/m^3.

A qualified odour panelist with his/her individual thresholds (n-butanol) complied with the requirement of the European Standard Method (EN 13725) in the range of 20 to 80 ppb/v and a standard deviation of R < 2.3 should be selected to conduct the odour assessment work.

Odour intensity for each sample was calculated multiplying odour concentration (OU_E/m^3), dilution factor of odour Panel and sample gas bag volume.

If there was any strong intensity odour detected by the panel, the trained panelists and other untrained persons would be invited and identify the odour nature (smell type and its quality) of the quilt samples by direct sniffing technique.

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TEST REPORT

Report No. : A00030399(2) Date : 2023-06-26

Application No. : L0017926(3)

Test Result :

Test Sample	Odour intensity (OU_E/m^3)
Sample 1	<11
Sample 2	<11
Sample 3	<11

Note: Results only representative over the specified samples.

***** End of Report *****

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