INNOTIER
研路天

Antiviral Underwear
銀織滅毒抗菌內褲

Certifications 測試證書

1. WEIPU Shanghai Antiviral activity [HCoV-229E] Test Method ISO18184：2019 Test Report
   - [229E] ISO18184:2019

2. ZKGC Inspection and Certification Antiviral activity [HPV-16] Test Method ISO18184：2019 Test Report
   - [16] ISO18184:2019

3. GTTC -Antimicrobial activity ASTM E 2149-2020 Candida albicans Test Report
   - [ ] ASTM E 2149-2020

4. GTTC -Antimicrobial activity T/GDBX 056-2022 (Level AAAAAAA) Lining Fabric Test Report[Staphylococcus aureus, Colon bacillus, Candida albicans] 150 washes
   - AAAAAAA T/GDBX 056-2022[白色念珠菌] 150

5. GTTC – GB/T 35263-2017 Textiles-Testing and evaluation for cool feeling in contact instant Test Report
   – GB/T 35263-2017

6. GTTC – GB/T 21655.2-2019 Textiles-Evaluation of absorption and quick-dring Test Report
   – GB/T 21655.2-2019

7. GTTC – GB/T 5453-1997 Air permeability Test Report
   – GB/T 5453-1997

8. GTTC – FZ/T 73024-2014 Knitted underwear with chemical fibres Test Report
   – FZ/T 73024-2014

Test Report (Electronic version)

No:210233989

Antimicrobial activity(%)	---
(ASTM E 2149-2020, Time of inhibiting bacteria: 24 hours) Inhibition: Candida albicans 99.14	

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———End of Report———

化都实验室:广州市花都区狮岭镇狮岭大道四路1号 电话:020-37721101/86548038

Test Report

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Verification Website: www.gttctech.com
Verification Code: DJWK-7461-44

No:240027407M0 Issue Date 签发日期:2024-02-24

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:
Antiviral Underwear 专利黑科技抗菌环保内裤
Quantity 数量: 6 pieces 6条
Fabric 面料
Quantity 数量: 2 pieces 2块100cm×100cm
Manufacturer 生产单位: GuangZhou JF Gloves & Garment Accessories Co., Ltd.
广州市凯权服饰有限公司

Basis of judgement 判定依据:
T/GDBX 056-2022 〈Antibacterial textiles〉《抗菌纺织品》

Date Received/Date Test Started: 2024-02-04
样品受理/测试开始日期: 2024-02-04

Conclusion 结论:

The testing results conform with the quality requirements of standard T/GDBX 056-2022.样品所检项目符合T/GDBX 056-2022标准要求。

Antimicrobial activity (Level AAAAAAA) [Lining fabric] 抗菌效果AAAAAAA级[底裆布料]	M

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Approved By(签发):
刘丽琴 高级工程师
LiQin Liu Senior Engineer

LiQin Liu

广州检验检测认证集团有限公司 检验检测专用章
国家纺织品服装服饰产品质量检验检测中心(广州) 检验检测专用章

总部:广州市番禺区珠江路1号
电话:020- 61994598/61994599
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- 37721161/66348638
Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

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"---"-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:
The decision indicators are derived from the standard required by client T/GDBX 056-2022).Our inspection capacity authorized by CMA covers the inspection items of T/GDBX 056-2022.
判定指标来源于客户要求的T/GDBX 056-2022。我单位获CMA认定授权的检验能力覆盖T/GDBX 056-2022所检项目。
This report replaces test report 240027407 which has become invalid automatically.
本报告代替240027407报告，同时240027407报告作废。
All the tested items are tested under the standard condition (except for indication).
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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。

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Approved By(签发):
刘丽琴 高级工程师
LiQin Liu Senior Engineer

LiQin Liu

广州检验检测认证集团有限公司 检验检测专用章
国家纺织品服装服饰产品质量检验检测中心(广州) 检验检测专用章

总部:广州市番禺区珠江路1号
电话:020- 61994598/61994599
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- 37721161/66348638
Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

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电话:020- 61994598/61994599
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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

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电话:020- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
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电话:020- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

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电话:020- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

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Tel: +86-20- 61994598/61994599
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电话:020- 37721161/66348638

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Tel: +86-20- 61994598/61994599
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Tel: +86-20- 37721161/66348638

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电话:020- 61994598/61994599
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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

Test Report

No: 240027407MO

Antimicrobial activity (Level AAAAAAA) [Lining fabric] 抗菌效果AAAAAAA级[底档布料]

Test method 测试方法:

GB/T 20944.3-2008

Shake flask method 振荡法

Sterilization of samples: Sterilized in autoclave 样品灭菌方法：高压蒸汽灭菌

Contact time: 18h 样品与菌液接触培养时间：18h

Control fabric: 100% cotton fabric 对照样品：100%纯棉织布

Washing by household double-barrel washing machine,150 washings 家用双桶洗衣机洗涤方法，洗涤150次

Concentration of bacterium 菌液浓度:

Staphylococcus aureus ATCC 6538 金黄色葡萄球菌 ATCC 6538: 3.2×10^5 CFU/mL

Colon bacillus 8099 大肠杆菌 8099: 3.3×10^5 CFU/mL

Candida albicans ATCC 10231 白色念珠菌 ATCC 10231: 3.1×10^5 CFU/mL

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电话:020- 37721161/66348638

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Test Report

No: 240027407M0

Test result 检验检测结果:

Test bacteria 测试菌种	Number of bacteria 菌落总数 (CFU/mL)			Growth value F 增长值F	Inhibition 抑菌率 (%)	Requirement 标准要求 (%)
	Control fabric 对照试样		Treated test specimen 抗菌试样			
	At "0h" contact time 0h接触时间内	After "18h" contact time 培养18h后	After "18h" contact time 培养18h后			
Staphylococcus aureus 金黄色葡萄球菌	2.1×10^4	2.7×10^6	2.4×10^5	2.1	91	≥85
Colon bacillus 大肠杆菌	2.2×10^4	8.3×10^6	1.7×10^6	2.6	80	≥70
Candida albicans 白色念珠菌	2.0×10^4	6.1×10^5	1.4×10^5	1.5	77	≥70
The evaluation of antimicrobial activity 抗菌效果评价	---					
Basis of judgement 判定依据	T/GDBX 056-2022					
Conclusion 结论	Pass 符合					
Remark 备注	---					

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广州检验检测认证集团有限公司 GUANGZHOU INSPECTION TESTING AND CERTIFICATION GROUP CO.,LTD. 检验检测专用章 INSPECTION & TESTING SERVICES

国家纺织品服装服饰产品质量检验检测中心(广州) NATIONAL QUALITY INSPECTION AND TESTING CENTER FOR TEXTILE GARMENT AND ACCESSORIES(GUANGZHOU) 检验检测专用章 INSPECTION & TESTING SERVICES

——本报告结束(End of Report)——

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电话:020- 61994598/61994599
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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
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Verification Code: GQPS-8227-04

No:240044713 Issue Date 签发日期:2024-03-11

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 研路天抗菌无痕内裤 6条，底裆面料 100cm×100cm

Brand 商标: 研路天

Manufacturer 生产单位: 广州市凯权服饰有限公司

Basis of judgement 判定依据:

GB/T 35263-2017 〈Textiles--Testing and evaluation for cool feeling in contact instant〉《纺织品 接触瞬间凉感性能的检测和评价》

Date Received/Date Test Started: 2024-03-06

样品受理/测试开始日期: 2024-03-06

Conclusion 结论:

Coefficient of cool feeling in contact[Lining shell fabric] 接触凉感系数[底裆面料布料]	M

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:
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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。

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Approved By(签发):

刘圆 工程师

Yuan Liu Engineer

Yuan Liu

广州检验检测认证集团有限公司 检验检测专用章

国家纺织品服装服饰产品质量检验检测中心(广州) 检验检测专用章

总部:广州市番禺区珠江路1号
电话:020- 61994598/61994599
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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

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总部:广州市番禺区珠江路1号
电话:020- 61994598/61994599
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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

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电话:020- 61994598/61994599
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Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

Test Report

No:240044713

Coefficient of cool feeling in contact(J/（cm^2 ·s））[Lining shell fabric] M
接触凉感系数(J/（cm^2 ·s））[底裆面料布料]

(GB/T 35263-2017,Table material 载样台材质:Polystyrene foam 聚苯乙烯泡沫,Instrument type 仪器型号:Roaches Q-Max,Test condition 试验条件:20.1℃,65.2%,Hot plate temperature 热板温度:35.0℃,Cold plate temperature 冷板温度:20.0℃)

		Requirement 要求
1#	0.287	
2#	0.290	
3#	0.285	
4#	0.279	
5#	0.284	
Average 平均值	0.28	≥0.15 (GB/T 35263-2017)

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广州检验检测认证集团有限公司 检验检测专用章

国家纺织品服装服饰产品质量检验检测中心(广州) 检验检测专用章

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电话:020- 61994598/61994599
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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

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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 研路天抗菌无痕内裤 6条，底裆面料 100cm×100cm

Brand 商标: 研路天

Manufacturer 生产单位: 广州市凯权服饰有限公司

Basis of judgement 判定依据:

GB/T 21655.2-2019 〈Textiles—Evaluation of absorption and quick-dring—Part 2:Method for moisture management tests〉《纺织品 吸湿速干性的评定 第2部分: 动态水分传递法》

Date Received/Date Test Started: 2024-03-06

样品受理/测试开始日期: 2024-03-06

Conclusion 结论:

Absorption and sweat releasing property before washing[Lining shell fabric] 洗前吸湿排汗性[底裆面料布料]	M

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:
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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。

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Approved By(签发):

赖红敏 工程师

HongMin Lai Engineer

广州检验检测认证集团有限公司 检验检测专用章

国家纺织品服装服饰产品质量检验检测中心(广州) 检验检测专用章

总部:广州市番禺区珠江路1号
电话:020- 61994598/61994599
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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
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Test Report

No:240044714

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总部:广州市番禺区珠江路1号
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电话:020- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
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Test Report

No:240044714

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电话:020- 37721161/66348638

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Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
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Test Report

No:240044714

Absorption and sweat releasing property before washing[Lining shell fabric] **M**
洗前吸湿排汗性[底档面料布料]
(GB/T 21655.2-2019)

	Requirement 要求
Wetting time 浸湿时间:	Wetting time 浸湿时间:
Penetration face 渗透面	
3.5s	≤20.0s
4 Grade 级	≥3 Grade 级
Absorption rate 吸水速率:	Absorption rate 吸水速率:
Penetration face 渗透面	
58.1%/s	≥30.1%/s
4 Grade 级	≥3 Grade 级
One-way transport capability 单向传递指数:	One-way transport capability 单向传递指数:
101.5	≥100.1
3 Grade 级	≥3 Grade 级
	(GB/T 21655.2-2019)

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广州检验检测认证集团有限公司 检验检测专用章
国家纺织品服装服饰产品质量检验检测中心(广州) 检验检测专用章

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电话:020- 61994598/61994599
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电话:020- 37721161/66348638
Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
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Verification Website: www.gttctech.com
Verification Code: HKHF-5174-54

No:240044712 Issue Date 签发日期:2024-03-11

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 Kingdom
地 址: 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 研路天抗菌无痕内裤 6条，底裆面料 100cm×100cm

Brand 商标: 研路天

Manufacturer 生产单位: 广州市凯权服饰有限公司

Basis of judgement 判定依据:

Date Received/Date Test Started: 2024-03-06

样品受理/测试开始日期: 2024-03-06

Conclusion 结论:

Air permeability[Lining shell fabric] 透气性[底裆面料布料]	---

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:
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本报告检验检测地址为广州市番禺区珠江路1号。

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Approved By(签发):

赖红敏 工程师

HongMin Lai Engineer

广州检验检测认证集团有限公司 检验检测专用章

国家纺织品服装服饰产品质量检验检测中心(广州) 检验检测专用章

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电话:020- 61994598/61994599
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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
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Test Report

No:240044712

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广州检验检测认证集团有限公司 GUANGZHOU INSPECTION TESTING AND CERTIFICATION GROUP CO.,LTD. 检验检测专用章 INSPECTION & TESTING SERVICES

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电话:020- 37721161/66348638

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Test Report

No:240044712

Air permeability(mm/s)[Lining shell fabric] 透气性(mm/s)[底档面料布料]	---

(GB/T 5453-1997, Pressure drop 压降: 100Pa, Test area 试验面积: 20cm², Face up 正面朝上)
216（CV 变异系数：9.2%）

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——本报告结束(End of Report)——

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Verification Website: www.gttctech.com
Verification Code: YHJF-1096-04

No:240036060 Issue Date 签发日期:2024-02-23

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:

Antiviral Underwear 专利黑科技抗菌环保内裤

Quantity 数量: 6 pieces 6条

Fabric 面料

Quantity 数量: 2 pieces 2块100cm×100cm

Manufacturer 生产单位: GuangZhou JF Gloves & Garment Accessories Co., Ltd.

广州市凯权服饰有限公司

Basis of judgement 判定依据:

FZ/T 73024-2014 〈Knitted underwear with chemical fibres〉《化纤针织内衣》, GB 18401-2010 〈National general safety technical code for textile products〉《国家纺织产品基本安全技术规范》, GB/T 29862-2013 〈Textiles—Identification of fiber content〉《纺织品 纤维含量的标识》, T/GDBX 056-2022 〈Antibacterial textiles〉《抗菌纺织品》

Date Received/Date Test Started: 2024-02-04

样品受理/测试开始日期: 2024-02-04

Conclusion 结论:

The testing results conform with the quality requirements for qualified product of standard FZ/T 73024-2014.
样品所检项目符合FZ/T 73024-2014标准合格品要求。

Dimensional stability to washing[Finished product: light yellow M underwear]

水洗尺寸变化率[成品浅黄色内裤]

Approved By(签发):

刘丽琴 高级工程师

LiQin Liu Senior Engineer

LiQin Liu

广州检验检测认证集团有限公司 检验检测专用章

国家纺织品服装服饰产品质量检验检测中心(广州) 检验检测专用章

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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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
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Pilling[Light yellow underwear shell fabric] 起球[浅黄色内裤面料布料]	M
Fibre composition[Light yellow underwear lining fabric] 纤维含量[浅黄色内裤底裆布料]	---
Fibre composition[Light yellow underwear shell fabric] 纤维含量[浅黄色内裤面料布料]	---
pH value[Light yellow underwear lining fabric] pH值[浅黄色内裤底裆布料]	M
pH value[Light yellow underwear shell fabric] pH值[浅黄色内裤面料布料]	M
Formaldehyde content[Finished product: light yellow underwear including print] 甲醛含量[成品浅黄色内裤含印花部位]	M
Determination of odours[Finished product: light yellow underwear] 异味[成品浅黄色内裤]	M
Colour fastness to washing with soap or soap and soda[Finished product: pink underwear shell] 耐皂洗色牢度[成品粉色内裤面料]	M
Colour fastness to perspiration[Finished product: pink underwear shell] 耐汗渍色牢度[成品粉色内裤面料]	M
Colour fastness to water[Finished product: pink underwear shell] 耐水色牢度[成品粉色内裤面料]	M
Colour fastness to dry rubbing[Finished product: pink underwear shell] 耐干摩擦色牢度[成品粉色内裤面料]	M
Colour fastness to wet rubbing[Finished product: pink underwear shell] 耐湿摩擦色牢度[成品粉色内裤面料]	M

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Approved By(签发):

刘丽琴 高级工程师

LiQin Liu Senior Engineer

总部:广州市番禺区珠江路1号
电话:020- 61994598/61994599
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- 37721161/66348638

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Colour fastness to washing with soap or soap and soda[Finished product: purple underwear shell] 耐皂洗色牢度[成品灰紫色内裤面料]	M
Colour fastness to perspiration[Finished product: purple underwear shell] 耐汗渍色牢度[成品灰紫色内裤面料]	M
Colour fastness to water[Finished product: purple underwear shell] 耐水色牢度[成品灰紫色内裤面料]	M
Colour fastness to dry rubbing[Finished product: purple underwear shell] 耐干摩擦色牢度[成品灰紫色内裤面料]	M
Colour fastness to wet rubbing[Finished product: purple underwear shell] 耐湿摩擦色牢度[成品灰紫色内裤面料]	M
Colour fastness to washing with soap or soap and soda[Finished product: green underwear shell] 耐皂洗色牢度[成品绿色内裤面料]	M
Colour fastness to perspiration[Finished product: green underwear shell] 耐汗渍色牢度[成品绿色内裤面料]	M
Colour fastness to water[Finished product: green underwear shell] 耐水色牢度[成品绿色内裤面料]	M
Colour fastness to dry rubbing[Finished product: green underwear shell] 耐干摩擦色牢度[成品绿色内裤面料]	M
Colour fastness to wet rubbing[Finished product: green underwear shell] 耐湿摩擦色牢度[成品绿色内裤面料]	M
Colour fastness to washing with soap or soap and soda[Finished product: light yellow underwear shell] 耐皂洗色牢度[成品浅黄色内裤面料]	M

CONFIDENTIAL

Approved By(签发):

刘丽琴 高级工程师

LiQin Liu Senior Engineer

LiQin Liu

总部:广州市番禺区珠江路1号
电话:020- 61994598/61994599
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Colour fastness to perspiration[Finished product: light yellow underwear shell] 耐汗渍色牢度[成品浅黄色内裤面料]	M
Colour fastness to water[Finished product: light yellow underwear shell] 耐水色牢度[成品浅黄色内裤面料]	M
Colour fastness to dry rubbing[Finished product: light yellow underwear shell] 耐干摩擦色牢度[成品浅黄色内裤面料]	M
Colour fastness to wet rubbing[Finished product: light yellow underwear shell] 耐湿摩擦色牢度[成品浅黄色内裤面料]	M
Colour fastness to washing with soap or soap and soda[Finished product: fleshcolor underwear shell] 耐皂洗色牢度[成品肉色内裤面料]	M
Colour fastness to perspiration[Finished product: fleshcolor underwear shell] 耐汗渍色牢度[成品肉色内裤面料]	M
Colour fastness to water[Finished product: fleshcolor underwear shell] 耐水色牢度[成品肉色内裤面料]	M
Colour fastness to dry rubbing[Finished product: fleshcolor underwear shell] 耐干摩擦色牢度[成品肉色内裤面料]	M
Colour fastness to wet rubbing[Finished product: fleshcolor underwear shell] 耐湿摩擦色牢度[成品肉色内裤面料]	M
Appearance quality[1 piece: light yellow underwear] 外观质量[1条浅黄色内裤]	---
Banned azo colourants[Light yellow underwear lining fabric] 可分解致癌芳香胺染料[浅黄色内裤底裆布料]	M

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Approved By(签发): LiQin Liu

刘丽琴 高级工程师

LiQin Liu Senior Engineer

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电话:020- 61994598/61994599
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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

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Verification Website: www.gttctech.com
Verification Code: YHJF-1096-04

No:240036060 Issue Date 签发日期:2024-02-23

Banned azo colourants[Finished product: light yellow underwear M shell including print]

可分解致癌芳香胺染料[成品浅黄色内裤面料含印花部位]

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:
Qualified product (样品按合格品判定)
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。

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Approved By(签发):
刘丽琴 高级工程师
LiQin Liu Senior Engineer

LiQin Liu

广州检验检测认证集团有限公司 检验检测专用章
国家纺织品服装服饰产品质量检验检测中心(广州) 检验检测专用章

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Dimensional stability to washing(%)[Finished product: light yellow underwear] M
水洗尺寸变化率(%)[成品浅黄色内裤]

(GB/T 8629-2001,Type A washing machine A型洗衣机,Procedure 程序:Simulated hand washing 仿手洗,Line dry 悬挂晾干)

		Requirement 要求
	Length 直向 +0.9	Length 直向 ≥-7.0
	Width 横向 -1.0	Width 横向 No requirement for elastic products 弹力产品不考核 (FZ/T 73024-2014)

Remark注: (-)means shrinkage and (+)means extension - 表示收缩 + 表示伸长

Pilling(Grade)[Light yellow underwear shell fabric] M
起球(级)[浅黄色内裤面料布料]

(GB/T 4802.1-2008,Circular locus method 圆轨迹法,Pilling 起球:600 cycles 600次, Pressure 压力:780 cN)

	Requirement 要求
4-5	≥2-3 (FZ/T 73024-2014)

Fibre composition(%)[Light yellow underwear lining fabric] ---
纤维含量(%)[浅黄色内裤底档布料]

(FZ/T 01057.1-2007,FZ/T 01057.2-2007,FZ/T 01057.3-2007,FZ/T 01057.4-2007, GB/T 38015-2019)
(Integrate with conventional moisture regain 结合公定回潮率含量):

Polyamide 锦纶	52.2
Polyester 聚酯纤维	28.9
Elastane 氨纶	18.9

Fibre composition(%)[Light yellow underwear shell fabric] ---
纤维含量(%)[浅黄色内裤面料布料]

(FZ/T 01057.1-2007,FZ/T 01057.2-2007,FZ/T 01057.3-2007,FZ/T 01057.4-2007, GB/T 38015-2019)
(Integrate with conventional moisture regain 结合公定回潮率含量):

Polyamide 锦纶	81.1
Elastane 氨纶	18.9

pH value[Light yellow underwear lining fabric] M
pH值[浅黄色内裤底档布料]

(GB/T 7573-2009,0.1mol/L KCl extracting solution 0.1mol/L KCl溶液萃取)

	Requirement 要求
6.3	4.0～7.5 Class A A类 (GB 18401-2010)

pH value[Light yellow underwear shell fabric] M
pH值[浅黄色内裤面料布料]

(GB/T 7573-2009,0.1mol/L KCl extracting solution 0.1mol/L KCl溶液萃取)

	Requirement 要求
6.8	4.0～7.5 Class A A类 (GB 18401-2010)

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Formaldehyde content(mg/kg)[Finished product: light yellow underwear including print] M
甲醛含量(mg/kg)[成品浅黄色内裤含印花部位]

(GB/T 2912.1-2009,Water extraction method 水萃取法)

		Requirement 要求
	ND	≤20 Class A A类
(Detection limit 检出限:20)		(GB 18401-2010)

Remark注: "ND" means less than the detection limit. 结果未检出表示含量低于检出限。

Determination of odours[Finished product: light yellow underwear] M
异味[成品浅黄色内裤]

(GB 18401-2010 6.7)

	Requirement 要求
No abnormal odour 无异味	No abnormal odour 无异味
	(GB 18401-2010)

Colour fastness to washing with soap or soap and soda(Grade)[Finished product: pink underwear shell] M
耐皂洗色牢度(级)[成品粉色内裤面料]

(GB/T 3921-2008,A(1),40℃)

			Requirement 要求
Colour change	变色	4	≥3
Colour staining	沾色		≥3
- Acetate	醋纤	4-5	(FZ/T 73024-2014)
- Cotton	棉	4-5	
- Polyamide	锦纶	4-5	
- Polyester	涤纶	4-5	
- Acrylic	腈纶	4-5	
- Wool	羊毛	4-5	

Colour fastness to perspiration(Grade)[Finished product: pink underwear shell] M
耐汗渍色牢度(级)[成品粉色内裤面料]

(GB/T 3922-2013)

		Acid 酸	Alkaline 碱	Requirement 要求
Colour change	变色	4	4	≥3-4
Colour staining	沾色			≥3-4
- Acetate	醋纤	4-5	4-5	(GB 18401-2010)
- Cotton	棉	4-5	4-5	
- Polyamide	锦纶	4-5	4-5	
- Polyester	涤纶	4-5	4-5	
- Acrylic	腈纶	4-5	4-5	
- Wool	羊毛	4-5	4-5	

Colour fastness to water(Grade)[Finished product: pink underwear shell] M
耐水色牢度(级)[成品粉色内裤面料]

(GB/T 5713-2013)

			Requirement 要求
Colour change	变色	4	≥3-4
Colour staining	沾色		≥3-4
- Acetate	醋纤	4-5	(GB 18401-2010)
- Cotton	棉	4-5	
- Polyamide	锦纶	4-5	
- Polyester	涤纶	4-5	
- Acrylic	腈纶	4-5	
- Wool	羊毛	4-5	

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Colour fastness to dry rubbing(Grade)[Finished product: pink underwear shell] M
耐干摩擦色牢度(级)[成品粉色内裤面料]
(GB/T 3920-2008)

		Requirement 要求
	4-5	≥4 (GB 18401-2010)

Colour fastness to wet rubbing(Grade)[Finished product: pink underwear shell] M
耐湿摩擦色牢度(级)[成品粉色内裤面料]
(GB/T 3920-2008)

		Requirement 要求
	4-5	≥2-3 (FZ/T 73024-2014)

Colour fastness to washing with soap or soap and soda(Grade)[Finished product: purple underwear shell] M
耐皂洗色牢度(级)[成品灰紫色内裤面料]
(GB/T 3921-2008,A(1),40℃)

		Requirement 要求
Colour change 变色	4	≥3
Colour staining 沾色		≥3
- Acetate 醋纤	4-5	(FZ/T 73024-2014)
- Cotton 棉	4-5	
- Polyamide 锦纶	4-5	
- Polyester 涤纶	4-5	
- Acrylic 腈纶	4-5	
- Wool 羊毛	4-5	

Colour fastness to perspiration(Grade)[Finished product: purple underwear shell] M
耐汗渍色牢度(级)[成品灰紫色内裤面料]
(GB/T 3922-2013)

	Acid 酸	Alkaline 碱	Requirement 要求
Colour change 变色	4	4	≥3-4
Colour staining 沾色			≥3-4
- Acetate 醋纤	4-5	4-5	(GB 18401-2010)
- Cotton 棉	4-5	4-5	
- Polyamide 锦纶	4-5	4-5	
- Polyester 涤纶	4-5	4-5	
- Acrylic 腈纶	4-5	4-5	
- Wool 羊毛	4-5	4-5	

Colour fastness to water(Grade)[Finished product: purple underwear shell] M
耐水色牢度(级)[成品灰紫色内裤面料]
(GB/T 5713-2013)

		Requirement 要求
Colour change 变色	4	≥3-4
Colour staining 沾色		≥3-4
- Acetate 醋纤	4-5	(GB 18401-2010)
- Cotton 棉	4-5	
- Polyamide 锦纶	4-5	
- Polyester 涤纶	4-5	
- Acrylic 腈纶	4-5	
- Wool 羊毛	4-5	

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Colour fastness to dry rubbing(Grade)[Finished product: purple underwear shell] M
耐干摩擦色牢度(级)[成品灰紫色内裤面料]
(GB/T 3920-2008)

		Requirement 要求
	4-5	≥4 (GB 18401-2010)

Colour fastness to wet rubbing(Grade)[Finished product: purple underwear shell] M
耐湿摩擦色牢度(级)[成品灰紫色内裤面料]
(GB/T 3920-2008)

		Requirement 要求
	4-5	≥2 (FZ/T 73024-2014)

Colour fastness to washing with soap or soap and soda(Grade)[Finished product: green underwear shell] M
耐皂洗色牢度(级)[成品绿色内裤面料]
(GB/T 3921-2008,A(1),40℃)

		Requirement 要求
Colour change 变色	4	≥3
Colour staining 沾色		≥3
- Acetate 醋纤	4-5	(FZ/T 73024-2014)
- Cotton 棉	4-5	
- Polyamide 锦纶	4-5	
- Polyester 涤纶	4-5	
- Acrylic 腈纶	4-5	
- Wool 羊毛	4-5	

Colour fastness to perspiration(Grade)[Finished product: green underwear shell] M
耐汗渍色牢度(级)[成品绿色内裤面料]
(GB/T 3922-2013)

	Acid 酸	Alkaline 碱	Requirement 要求
Colour change 变色	4	4	≥3-4
Colour staining 沾色			≥3-4
- Acetate 醋纤	4-5	4-5	(GB 18401-2010)
- Cotton 棉	4-5	4-5	
- Polyamide 锦纶	4-5	4-5	
- Polyester 涤纶	4-5	4-5	
- Acrylic 腈纶	4-5	4-5	
- Wool 羊毛	4-5	4-5	

Colour fastness to water(Grade)[Finished product: green underwear shell] M
耐水色牢度(级)[成品绿色内裤面料]
(GB/T 5713-2013)

		Requirement 要求
Colour change 变色	4	≥3-4
Colour staining 沾色		≥3-4
- Acetate 醋纤	4-5	(GB 18401-2010)
- Cotton 棉	4-5	
- Polyamide 锦纶	4-5	
- Polyester 涤纶	4-5	
- Acrylic 腈纶	4-5	
- Wool 羊毛	4-5	

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Colour fastness to dry rubbing(Grade)[Finished product: green underwear shell] M
耐干摩擦色牢度(级)[成品绿色内裤面料]
(GB/T 3920-2008)

		Requirement 要求
	4-5	≥4 (GB 18401-2010)

Colour fastness to wet rubbing(Grade)[Finished product: green underwear shell] M
耐湿摩擦色牢度(级)[成品绿色内裤面料]
(GB/T 3920-2008)

		Requirement 要求
	4-5	≥2-3 (FZ/T 73024-2014)

Colour fastness to washing with soap or soap and soda(Grade)[Finished product: light yellow underwear shell] M
耐皂洗色牢度(级)[成品浅黄色内裤面料]
(GB/T 3921-2008,A(1),40℃)

		Requirement 要求
Colour change 变色	4	≥3
Colour staining 沾色		≥3
- Acetate 醋纤	4-5	(FZ/T 73024-2014)
- Cotton 棉	4-5	
- Polyamide 锦纶	4-5	
- Polyester 涤纶	4-5	
- Acrylic 腈纶	4-5	
- Wool 羊毛	4-5	

Colour fastness to perspiration(Grade)[Finished product: light yellow underwear shell] M
耐汗渍色牢度(级)[成品浅黄色内裤面料]
(GB/T 3922-2013)

	Acid 酸	Alkaline 碱	Requirement 要求
Colour change 变色	4	4	≥3-4
Colour staining 沾色			≥3-4
- Acetate 醋纤	4-5	4-5	(GB 18401-2010)
- Cotton 棉	4-5	4-5	
- Polyamide 锦纶	4-5	4-5	
- Polyester 涤纶	4-5	4-5	
- Acrylic 腈纶	4-5	4-5	
- Wool 羊毛	4-5	4-5	

Colour fastness to water(Grade)[Finished product: light yellow underwear shell] M
耐水色牢度(级)[成品浅黄色内裤面料]
(GB/T 5713-2013)

		Requirement 要求
Colour change 变色	4	≥3-4
Colour staining 沾色		≥3-4
- Acetate 醋纤	4-5	(GB 18401-2010)
- Cotton 棉	4-5	
- Polyamide 锦纶	4-5	
- Polyester 涤纶	4-5	
- Acrylic 腈纶	4-5	
- Wool 羊毛	4-5	

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总部:广州市番禺区珠江路1号
电话:020- 61994598/61994599
花都实验室:广州市花都区狮岭镇旗岭河滨西路1号
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Colour fastness to dry rubbing(Grade)[Finished product: light yellow underwear shell] M
耐干摩擦色牢度(级)[成品浅黄色内裤面料]
(GB/T 3920-2008)

		Requirement 要求
	4-5	≥4 (GB 18401-2010)

Colour fastness to wet rubbing(Grade)[Finished product: light yellow underwear shell] M
耐湿摩擦色牢度(级)[成品浅黄色内裤面料]
(GB/T 3920-2008)

		Requirement 要求
	4-5	≥2-3 (FZ/T 73024-2014)

Colour fastness to washing with soap or soap and soda(Grade)[Finished product: fleshcolor underwear shell] M
耐皂洗色牢度(级)[成品肉色内裤面料]
(GB/T 3921-2008,A(1),40℃)

			Requirement 要求
Colour change	变色	4	≥3
Colour staining	沾色		≥3
- Acetate	醋纤	4-5	(FZ/T 73024-2014)
- Cotton	棉	4-5	
- Polyamide	锦纶	4-5	
- Polyester	涤纶	4-5	
- Acrylic	腈纶	4-5	
- Wool	羊毛	4-5	

Colour fastness to perspiration(Grade)[Finished product: fleshcolor underwear shell] M
耐汗渍色牢度(级)[成品肉色内裤面料]
(GB/T 3922-2013)

		Acid 酸	Alkaline 碱	Requirement 要求
Colour change	变色	4	4	≥3-4
Colour staining	沾色			≥3-4
- Acetate	醋纤	4-5	4-5	(GB 18401-2010)
- Cotton	棉	4-5	4-5	
- Polyamide	锦纶	4-5	4-5	
- Polyester	涤纶	4-5	4-5	
- Acrylic	腈纶	4-5	4-5	
- Wool	羊毛	4-5	4-5	

Colour fastness to water(Grade)[Finished product: fleshcolor underwear shell] M
耐水色牢度(级)[成品肉色内裤面料]
(GB/T 5713-2013)

			Requirement 要求
Colour change	变色	4	≥3-4
Colour staining	沾色		≥3-4
- Acetate	醋纤	4-5	(GB 18401-2010)
- Cotton	棉	4-5	
- Polyamide	锦纶	4-5	
- Polyester	涤纶	4-5	
- Acrylic	腈纶	4-5	
- Wool	羊毛	4-5	

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总部:广州市番禺区珠江路1号
电话:020- 61994598/61994599
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- 37721161/66348638

Headquarters: No.1, Zhujiang Road,Panyu District,Guangzhou, Guangdong, P.R.China.
Tel: +86-20- 61994598/61994599
Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

Test Report

No:240036060

Colour fastness to dry rubbing(Grade)[Finished product: fleshcolor underwear shell] 耐干摩擦色牢度(级)[成品肉色内裤面料] (GB/T 3920-2008)	4-5	M Requirement 要求 ≥4 (GB 18401-2010)
Colour fastness to wet rubbing(Grade)[Finished product: fleshcolor underwear shell] 耐湿摩擦色牢度(级)[成品肉色内裤面料] (GB/T 3920-2008)	4-5	M Requirement 要求 ≥2 (FZ/T 73024-2014)
Appearance quality[1 piece: light yellow underwear] 外观质量[1条浅黄色内裤] (GB/T 8878-2014 5.2)	Pass (dimension is not tested) 符合要求（规格未检测）	--- Requirement 要求 According to the clause 4.4 of the product standard 按标准4.4条要求 (FZ/T 73024-2014)

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Tel: +86-20- 37721161/66348638

Test Report

No: 240036060

Banned azo colourants[Light yellow underwear lining fabric] 可分解致癌芳香胺染料[浅黄色内裤底档布料]

Test method: 测试方法 GB/T 17592-2011 General pretreatment 常规前处理方法

Forbidden amine	禁用芳香胺名称	CAS No. 化学文摘编号	Requirement 标准要求 (mg/kg)	Result 检验检测结果 (mg/kg)
4-Aminobiphenyl	4-氨基联苯	92-67-1	≤20	ND
Benzidine	联苯胺	92-87-5	≤20	ND
4-Chloro-o-toluidine	4-氯-邻甲苯胺	95-69-2	≤20	ND
2-Naphthylamine	2-萘胺	91-59-8	≤20	ND
o-Aminoazotoluene	邻氨基偶氮甲苯	97-56-3	≤20	ND
5-Nitro-o-toluidine	5-硝基-邻甲苯胺	99-55-8	≤20	ND
4-Chloroaniline	对氯苯胺	106-47-8	≤20	ND
2,4-Diaminoanisole	2,4-二氨基苯甲醚	615-05-4	≤20	ND
4,4'-Diaminodiphenylmethane	4,4'-二氨基二苯甲烷	101-77-9	≤20	ND
3,3'-Dichlorobenzidine	3,3'-二氯联苯胺	91-94-1	≤20	ND
3,3'-Dimethoxybenzidine	3,3'-二甲氧基联苯胺	119-90-4	≤20	ND
3,3'-Dimethylbenzidine	3,3'-二甲基联苯胺	119-93-7	≤20	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	3,3'-二甲基-4,4'-二氨基二苯甲烷	838-88-0	≤20	ND
p-Cresidine	2-甲氧基-5-甲基苯胺	120-71-8	≤20	ND
4,4'-Methylene-bis-(2-chloroaniline)	4,4'-亚甲基-二-(2-氯苯胺)	101-14-4	≤20	ND
4,4'-Oxydianiline	4,4'-二氨基二苯醚	101-80-4	≤20	ND
4,4'-Thiodianiline	4,4'-二氨基二苯硫醚	139-65-1	≤20	ND
o-Toluidine	邻甲苯胺	95-53-4	≤20	ND
2,4-Toluylendiamine	2,4-二氨基甲苯	95-80-7	≤20	ND
2,4,5-Trimethylaniline	2,4,5-三甲基苯胺	137-17-7	≤20	ND
O-Anisidine	邻氨基苯甲醚	90-04-0	≤20	ND
2,4-Xylidine	2,4-二甲基苯胺	95-68-1	≤20	ND
2,6-Xylidine	2,6-二甲基苯胺	87-62-7	≤20	ND
4-Aminoazobenzene	4-氨基偶氮苯	60-09-3	≤20	ND

"ND" means less than the detection limit of 5mg/kg 结果未检出表示含量低于检出限:5mg/kg

Rating according to GB 18401-2010. 该项目按照GB 18401-2010标准判定。

Overall rating 本项判定 **Pass 符合**

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总部:广州市番禺区珠江路1号
电话:020- 61994598/61994599
花都实验室:广州市花都区狮岭镇旗岭河滨西路1号
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Huadu Laboratory: No.1, Hebin West Road, Qiling, Huadu District, Guangzhou, GuangDong, P.R.China.
Tel: +86-20- 37721161/66348638

Test Report

No: 240036060

Banned azo colourants[Finished product: light yellow underwear shell including print]
可分解致癌芳香胺染料[成品浅黄色内裤面料含印花部位]

Test method:
测试方法 GB/T 17592-2011 General pretreatment 常规前处理方法

Forbidden amine	禁用芳香胺名称	CAS No. 化学文摘编号	Requirement 标准要求 (mg/kg)	Result 检验检测结果 (mg/kg)
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Benzidine	联苯胺	92-87-5	≤20	ND
4-Chloro-o-toluidine	4-氯-邻甲苯胺	95-69-2	≤20	ND
2-Naphthylamine	2-萘胺	91-59-8	≤20	ND
o-Aminoazotoluene	邻氨基偶氮甲苯	97-56-3	≤20	ND
5-Nitro-o-toluidine	5-硝基-邻甲苯胺	99-55-8	≤20	ND
4-Chloroaniline	对氯苯胺	106-47-8	≤20	ND
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3,3'-Dimethoxybenzidine	3,3'-二甲氧基联苯胺	119-90-4	≤20	ND
3,3'-Dimethylbenzidine	3,3'-二甲基联苯胺	119-93-7	≤20	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	3,3'-二甲基-4,4'-二氨基二苯甲烷	838-88-0	≤20	ND
p-Cresidine	2-甲氧基-5-甲基苯胺	120-71-8	≤20	ND
4,4'-Methylene-bis-(2-chloroaniline)	4,4'-亚甲基-二-(2-氯苯胺)	101-14-4	≤20	ND
4,4'-Oxydianiline	4,4'-二氨基二苯醚	101-80-4	≤20	ND
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2,4,5-Trimethylaniline	2,4,5-三甲基苯胺	137-17-7	≤20	ND
O-Anisidine	邻氨基苯甲醚	90-04-0	≤20	ND
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"ND" means less than the detection limit of 5mg/kg 结果未检出表示含量低于检出限:5mg/kg

Rating according to GB 18401-2010. 该项目按照GB 18401-2010标准判定。

Overall rating 本项判定 **Pass 符合**

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——本报告结束(End of Report)——

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