

PROTECT YOU PROTECT THE ENVIRONMENT

ANTIBACTERIAL

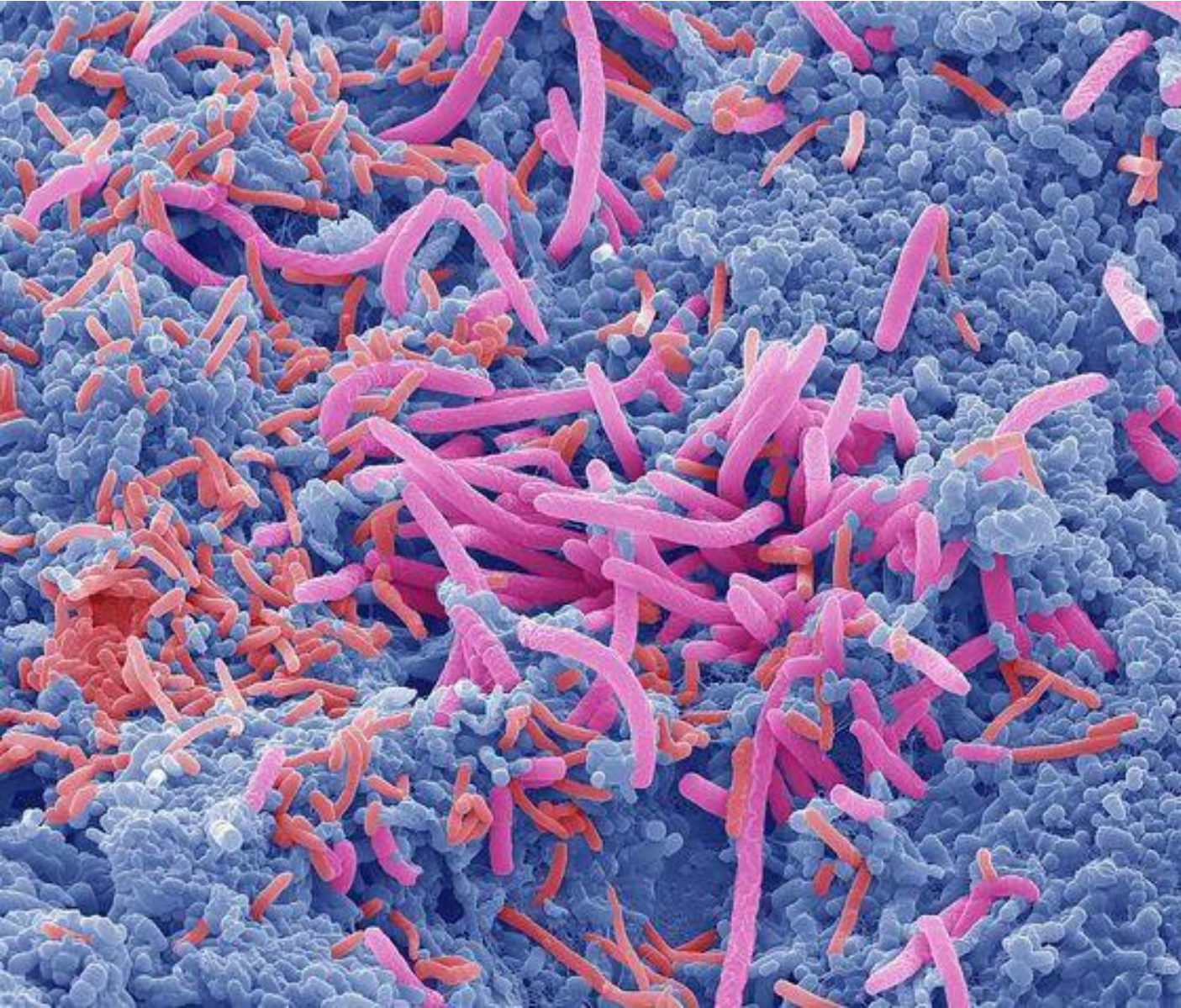
YARNS & COLORS



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is

always a good idea



PROGRAM

01 - Characteristic

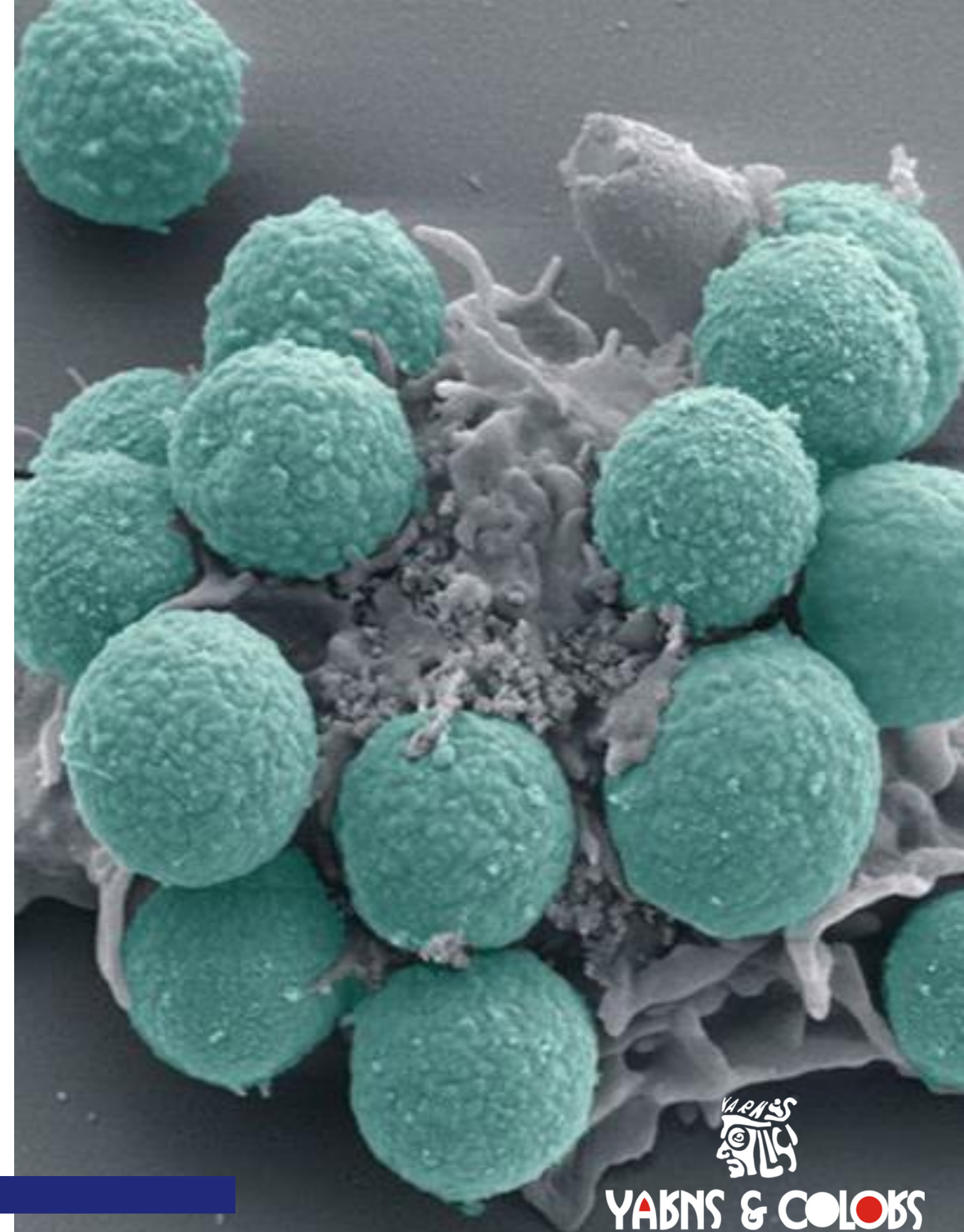
02 - Harmful

03 - Principle

04 - Products

01 - Characteristic

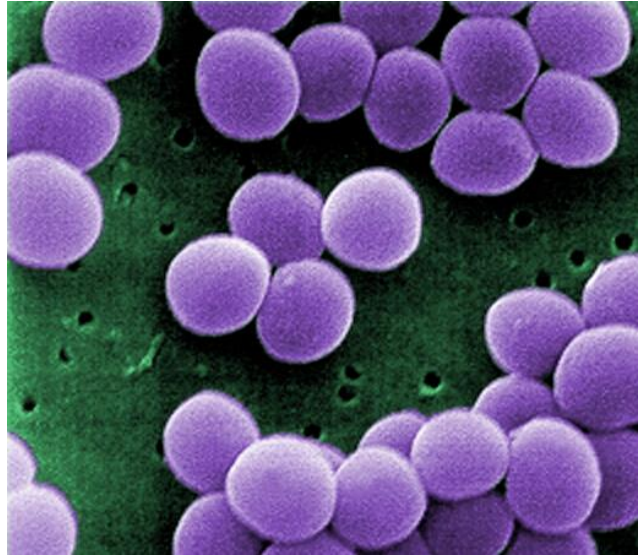
- The smallest bacteria are only 0.2 microns long under a microscope.
- Bacteria, like plants, have cell walls and can live independently.
- The thickness of cell wall varies with bacteria and is generally 15-30nm. The main component is peptidoglycan.
- Bacteria are mainly spherical, rod-shaped and spiral in shape.
- Bacteria belong to pathogenic microorganisms, which transmit diseases among human bodies through contact, digestive tract, respiratory tract, insect bite, etc. and are highly infectious.



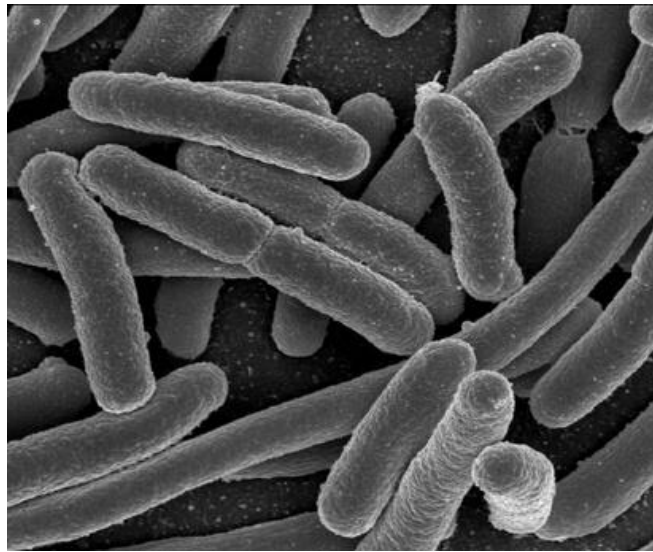
02 – Harmful



Bacteria can infect human body and disease through daily articles, clothing, towels and other textiles in close contact with human body.



• Staphylococcus Aureus

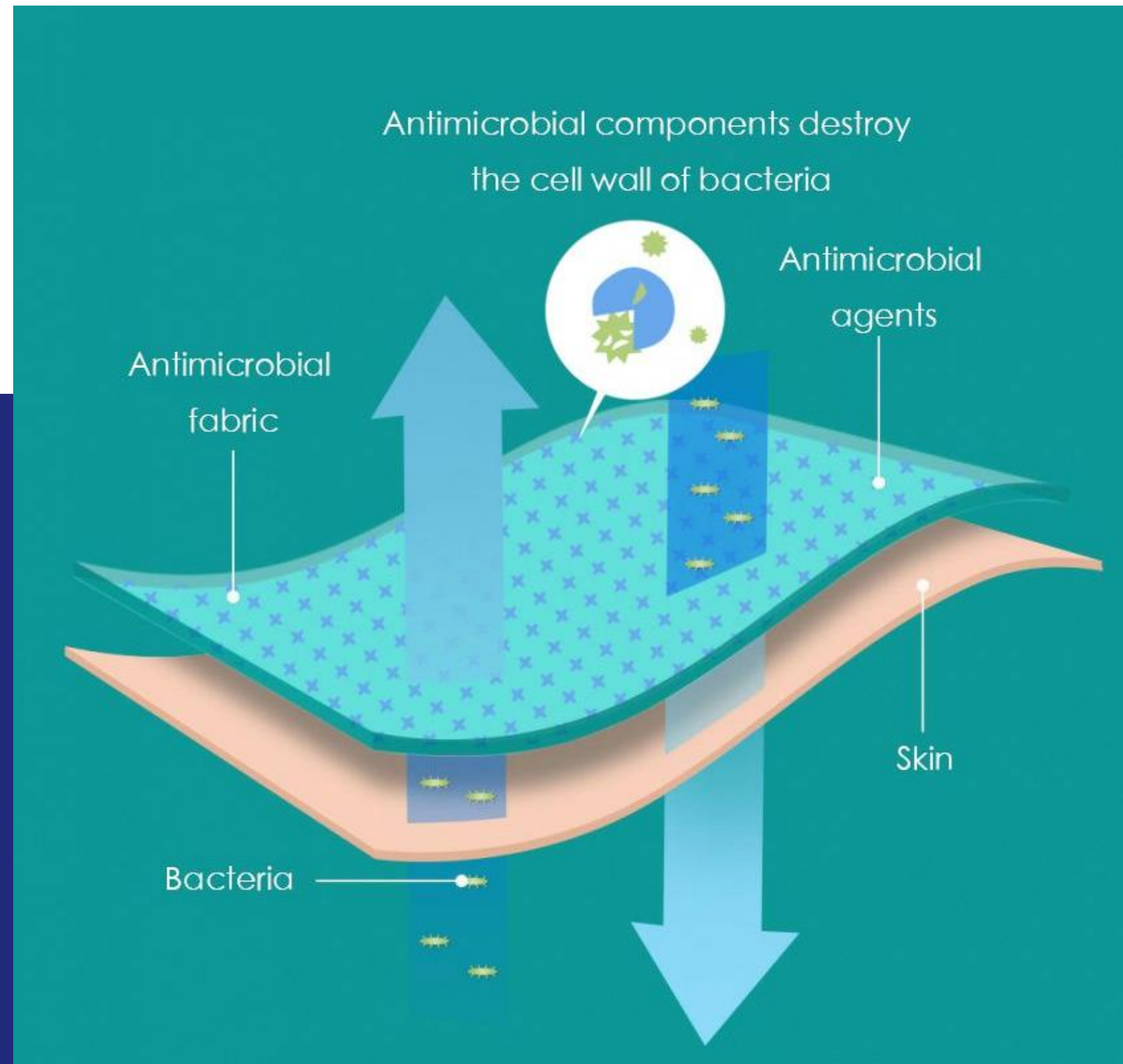


• Escherichia Coli



• Candida Albicans

03 - Principle



- The antibacterial effect is achieved by adding antibacterial agents, and the growth and reproduction of microorganisms are prevented or inhibited;
- The antibacterial agent is cationic and has good wash ability and antibacterial effect. After testing and washing for 30 times, the bacteriostatic effect increases to 95%.
- Antimicrobial components destroy the cell wall of bacteria, causing the cell membrane to rupture. This terminates the metabolic process of microorganisms and prevents the microorganisms from growing and reproducing.
- The antibacterial agent is inside the fiber and does not come directly in contact with the human body, thus being environmentally friendly and harmless.

04 - Antibacterial cotton/silver
ion/viscose/polyester series

Antimicrobial Series

Due to the shape of the object and the chemical structure of the polymer,
it is favorable for microorganisms to attach
and become good parasites for the survival
and reproduction of microorganisms.

The new antibacterial series yarn made of fibers
has high-efficiency antibacterial functions
and protects you and
your family's health.



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Product Performance Characteristics



Highly Effective
Antibacterial
Durable Protection



High durability
Can be washed 20-50
times



Effectively control the
propagate of
microorganisms
Endows freshness and
retains cleanliness



Suitable for knitted fabrics
such as sportswear, sports
accessories, yoga, and etc.

Antibacterial Cotton



- Pure cotton antibacterial fabric can effectively prevent harmful bacteria from spreading through the fabric.
- Natural cotton fiber brings natural comfort and ventilation, keeping skin dry and free from static electricity.
- Multi-strand intertwining makes the yarn compact, gives it a higher quality, has an anti-penetration effect and is soft to the touch.
- Anti-UV/ Antivirus/Antibacterial+Anti-UV/ Hyaluronic Acid

CTTC

检验报告 Test Report



报告编号(No.) AD15000252

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委托单位 Applicant	苏州高景科技有限公司 YARNS & COLORS CO., LTD	检验类型 Test Type	委托检验 Commission test	来样日期 Date Received	2015.05.11
生产单位 Manufacture	苏州高景科技有限公司 YARNS & COLORS CO., LTD	委托人 Client	—	签发日期 Issued Date	2015.05.15
样品名称 Sample Name	面料Fabric C3403 CRAFT 4/101NM 100% Cotton	商标 Trade Mark	—	标称等级 Sample Grade	—
样品信息 Sample Description	白色针织物 White knitted fabric				
声明款号 Style No.	-----				
检验依据	GB/T 20944.3-2008纺织品 抗菌性能的评价 第3部分:振荡法 FZ/T 64010-2000 远红外纺织品				

金黄色葡萄球菌(ATCC 6538)抑菌率 Staphylococcus aureus(ATCC 6538) Bacteriostatic activity percentage	%	≥70	>99	符合 Meet	GB/T 20944.3-2008
大肠杆菌(8099)抑菌率 Escherichia coli(8099) Bacteriostatic activity percentage	%	≥70	95	符合 Meet	
白色念珠菌(ATCC 10231)抑菌率 Candida albicans(ATCC 10231) Bacteriostatic activity percentage	%	≥60	95	符合 Meet	

国家纺织产品质量监督检验中心
报告骑缝专用章(3)



备注
Notes
委托检验仪对来样负责,复印件未重新加盖红色检验专用章无效。
This report is valid only for the samples delivered by clients. Duplicate is invalid without inspector's seal restamped in red.

批准
Approved by 王峰

审核
Inspected by 高建超

编制
Typed by 赵宗



Antibacterial Silver Ion



- Odor elimination-can quickly adsorb ammonia and qualitative proteins thereon to reduce and eliminate odor.
- Antibacterial Function- Effectively destroy the cell membrane of bacteria and reduce its activity to product bacteriostatic
- Safety and Health- AFC Silver Thread Antibacterial Yarn is a natural silver thread element made of pure silver, without fear of chemical or toxic damage.
- Blood Circulation- Conducts and reflects the temperature generated on the skin to rapidly lower and maintain the body temperature

(附页)

报告编号(No.): BA20000658



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	标准值 Requirement	实测值 Results	单项判定 Judgement
Bacteriostatic activity percentage of Staphylococcus aureus (ATCC 6538)(%) -After washing 20times FZ/T 73023-2006 Annex D	≥80	>99	Pass

Bacteriostatic activity percentage of Staphylococcus aureus (ATCC 6538)(%) -After washing 20times FZ/T 73023-2006 Annex D	≥80	>99	Pass
Bacteriostatic activity percentage of Candida albicans (ATCC 10231)(%) -After washing 20times FZ/T 73023-2006 Annex D	≥60	>99	Pass
Bacteriostatic activity percentage of escherichia coli(8099)(%) -After washing 20times FZ/T 73023-2006 Annex D	≥70	98	Pass

Antibacterial Viscose



- Viscose in SNOWY uses LENZING™ ECOVERO™, which is made from certified renewable wood sources and conforms to FSC standards, and is helpful to create a cleaner environment.
- Compared with ordinary viscose fiber, it can reduce emissions and water pollution by up to 50%.
- Because Viscose fiber is a natural fiber extracted from trees, it can be decomposed by natural microorganisms, effectively reducing pollution.
- Series products:
SUNNY
ATHENA (antibacterial+anti-UV+ moisture absorption and perspiration)
SNOWOOL
ATHENA WOOL (antibacterial)
ALFRED



TEST REPORT

Tests Conducted (As Requested)	Testing Parameter	Method	Result 1	Result 2	Result 3	
1	Fabric Moisture Management	- Wetting Time (Second)	- Top Surface	11.6812	4.1278	3.0
		- Bottom Surface	0.7122	1.1738	5.0	
	Absorption Rate (%/Second)	- Top Surface	117.4573	109.5133	4.0	
		- Bottom Surface	10.7887	7.6617	1.0	
Liquid Moisture	Maximum Wetted Radius (mm)	- Top Surface	9.0	4.1833	2.0	
		- Bottom Surface	27.0	2.7386	5.0	
	Spreading Speed (mm/Second)	- Top Surface	0.5963	0.2825	1.0	
		- Bottom Surface	15.0163	8.6675	5.0	
	Accumulative One-way Transport Capability		2152.4067	308.0333	5.0	
	Overall Moisture Management Capability (OMMC)		0.7587	0.0152	4.5	
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	Overall Moisture Management Capability (OMMC)		0.7587	0.0152	4.5	



The Ultraviolet Protection Factor, UPF
紫外线防护系数,UPF

(A) (B)

50+ 50+

Requirement	Results
Bacteriostatic activity percentage of Staphylococcus aureus (ATCC 6538)(%)-After washing 20 times FZ/T 73023-2006 附录 D	98
Bacteriostatic activity percentage of Candida albicans (ATCC 10231)(%) -After washing 20 times FZ/T 73023-2006 附录 D	91
Bacteriostatic activity percentage of escherichia coli(8099)(%) -After washing 20 times FZ/T 73023 2006 附录 D	89



Antibacterial Polyester



- It has the good properties of natural fiber and the good physical properties of synthetic fiber.
- Good stability, wrinkle resistance, air and moisture permeability, extendable, good dimensional stability and has silk texture.
- Fine and clean lines, clear, plump and soft texture, comfortable to wear.
- The antibacterial agent is added to inhibit bacterial cells and achieve high-efficiency antibacterial function.

2019年9月24日
記
上海科懇檢驗服務有限公司

試料*	生菌数の常用対数値(最大最小差)		抗菌活性値
	菌液接種直後	18時間培養後	
①ネイビー	---	---	---
	洗濯10回後	3.11(0.3)	1.30(0.0)
対照試料・[標準布(綿100%、白布)]		4.43(0.1)	7.09(0.2)

試料*	生菌数の常用対数値(最大最小差)		抗菌活性値
	菌液接種直後	18時間培養後	
①ネイビー	---	---	---
	洗濯10回後	3.11(0.3)	1.30(0.0)
対照試料・[標準布(綿100%、白布)]		4.43(0.1)	7.09(0.2)

以上

本報告書に記載の試験結果は供試試料に対するものであり、ロット全体の品質を報告するものではありません。事業所朱印のない報告書については、当会は一切責任を負いかねます。

確認	担当者



- Special quality inspection index
- The products all passed the representative antibacterial performance test standards: GB/T20944, ISO20743, AATCC 100, JIS L 1902
- According to national GB/T20944 standard, this product has good antibacterial effect.

