



金壁福临  
YI KANG

Antibacteria

Disinfection

**Silver ion long-acting broad spectrum  
physical antibacteria disinfectant**

**Kill more than 650 kinds of virus and bacteria**

**No side effect to human body**

- ✓ Hands clean
- ✓ Body and skin
- ✓ Trauma sterilization
- ✓ Oral care

Non-  
irritating

**Face mask disinfection**

The same face mask can be used for 7 days with one spray. Lethal rate reaches 99.99%

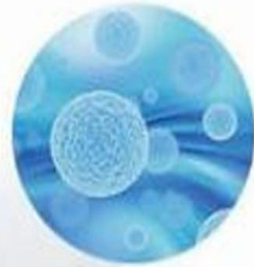


# Effect contract between Fu Yangkang medical silver ion antibacterial spray and common disinfectant

	Silver ion antibacterial spray	75% ethanol (alcohol)	Sodium hypochlorite (84 disinfectant)	hydrogen peroxide (H2O2)
Smell	None	Pungent	Smelly	None
Irritation	None	Irritating	Irritating	Irritating
Corrosion	None	High corrosive	Low corrosive	Low corrosive
Safety	High (no cancerogen, non-irritating)	Medium (sensitive to skin, possibility of combustion)	Medium (higher irritating to skin and respiratory system than hydrogen peroxide)	Low (irritating to eye and skin)
Effect of disinfection	High	Medium	Low	Medium
Disinfecting rate	Quick	Slow	Slow	Slow
Effect continuity	Long	Short	Short	Short
Human injury	None	Flam mable, long-time contact would irritate skin or cause various kinds of sensitive reaction	Strong cancerogenic and corrosive, irritating to respiratory mucosa and easy to increase possibility of flu for children	Sense of irritating and tingle. Corro-sive injury would cause blindness, tissue necrosis and pulmonary edema in severity



**Staphylococcus aureus**



**Candida albicans**

**Kill more than 600 kinds of  
virus and bacteria  
Lethal rate reaches 99.99% with  
continuous disinfection effect**

A layer of protective membrane would be  
formed when the silver ion is killing bacteria  
to continuously control the bacteria  
and prevent second infection.



**Escherichia coli**



**pyogenic coccus and all kinds of  
bacteria on surface of skin**



Relievedly, security safeguard for anti-epidemic medical staff in Wu Han is coming, exclusively reported (original source firstly issued)



民声面对面 01月30日 12:23

**Exclusively reported in News Face to Face, online type of Mao Wei Newspaper, People's Daily (Mao Wei)**

An unexpected COVID-19 emerged menacingly, which affected all of people in China. Recently national center for disease control expert Yu Zujiang has confirmed by test that antibacteria effect of trivalent silver ion was 60000 times of alcohol's and it could inhibit and kill the novel coronavirus. Especially it had both function of continuous antibacteria and anti-virus, **effectively protecting medical staff away from contact infection.** It would become an acute weapon in this anti-epidemic battle with technology of antibacteria and disinfection. The anti-coronavirus agent has been used in **frontline of anti-epidemic battle.**

# **Fu Yangkang medical silver ion antibacterial spray**

It has function of antibacteria and disinfection, can kill more than 600 kinds of bacteria (including escherichia coli, staphylococcus aureus and candida albicans). Effect of disinfection reaches 99.99% with no side effect. It applies to individual, indoor space such as house, school, hotel, hospital, vehicle and etc. When in use, spray the part which needs to be sterilized and clean, let it dry as normal. It could be used to sterilize common object surface, such as hand skin, face mask and etc, effectively inhibiting cross-infection. It has no alcohol and is non-irritating to skin.



**Its effect will last for 7 days  
with one spray**

**Silver ion long-acting broad  
spectrum antibacteria disinfectant**

**Ag<sup>+</sup> silver ion antibacterial spray**

**Free of chlorine**

**Free of ethanol**

**Non-toxic and non-irritating**

**The same face mask can be used for 7 days with  
one spray. Lethal rate reaches 99.99%**

SILVER ION LONG-ACTING BROAD-SPECTRUM ANTIBACTERIAL



## SILVER ION ANTIBACTERIAL SPRAY



**【 Product name 】 Silver ion antibacterial spray**

This product is developed using international advanced silver ion antibacterial technology.

The test proves that it has antibacterial effect on Staphylococcus aureus, Escherichia coli, and Candida albicans, and the antibacterial effect reaches 99.99%

**【 Raw Material 】 Silver Ion、 Purified water**

**【 Active Ingredient and content 】 Silver Ion.**

Silver Ion 0.003% Purified water 99.997%

**【 Dosage form 】 Liquid.**

**【 SCOPE of application 】** for antibacterial cleaning of hand skin, masks and other general objects, but also for antibacterial cleaning of oral cavity

**【 Instructions 】** : Take this product and spray, wipe, and rinse on the desired area. It is recommended that patients with coronavirus (COVID-19) use six times a day, spray the tongue ten times with each use, and keep in the mouth for 20 seconds.



Hand Protection



Face Mask Surface



Oral Cleaning



Maternal And Child Safety

silver Ion Antibacterial Spray



**30PPM**  
**100ML 3.5floz**



This product is developed using international advanced silver ion antibacterial technology  
Publisher: Yi kang (Beijing) biotechnology Co., LTD

**【 Precautions 】** 1、 Avoid using with chlorine and iodine products.

2、 Silver allergy sufferers use it with caution

3、 This product is not a substitute for drugs

**【 Specifications 】** 100ml 3.5 floz .

**【 Storage 】** Normal temperature, avoid direct sunlight

**【 Shelf life 】** 24 months

**【 Sanitary license 】** SuWeiXiaoZhenZi(2019) No.3202-0016

**【 Implementation Standard 】** Q/HLZK 0002-2020

Entrusted unit: Beijing Times Quankang Technology Co., Ltd.

Production Unit: Wuxi Partner Daily Chemical Technology Co., Ltd.

Company officialwebsite: [www.ykbswkj.com](http://www.ykbswkj.com)

Serviceline: (+86) 13537669296



Made in China



EXP:19/04/22









## ✕ “Health gatekeeper” in laboratory ...

*People's daily* quality news

open



### “Health gatekeeper” in laboratory

2 / 6

On 19th March, Dr. Zhu Qiang, researcher in Key Laboratory of Bio-medical Diagnostics, Chinese Academy of Sciences was carrying out anti-bacteria test on colloidal silver ion disinfectant. Recently a high efficient and broad spectrum antibacteria disinfectant has been successfully developed which adopted full newly nanometer silver ion technology and pure physical method. (photoed by Wang Wei)

## ✕ “Health gatekeeper” in laboratory ...



### “Health gatekeeper” in laboratory

CNTV news: On 19th March 2020, Dr. Zhu Qiang, researcher in Key Laboratory of Bio-medical Diagnostics, Chinese Academy of Sciences was carrying out anti-bacteria test on colloidal silver ion disinfectant. Recently Recently a high efficient and broad spectrum antibacteria disinfectant has been successfully developed which adopted full newly nano silver ion technology and pure physical method.  
(photoed by Wang Wei)



# Silver ion antibacterial spray

It is developed and produced with the internationally advanced silver ion antibacterial technology

Long-acting broad-spectrum physical sterilization can kill over 650 species of virus and bacterium

It can be used for disinfection of face mask as applying once may allow the service time of a mask lasting even as long as 7 days with the lethal rate up to 99.99%

It can be applied to skin, wound and mouth as anti-bacterial and cleaning method without any side effect on human body

It can be used for daily disinfection in family, workplace, hospital and car!



contains no alcohol & chlorine and is free of irritation.

On March 19, 2020, Dr. Qiang Zhu, the R&D staff in Beijing Zhongsheng Medical Testing Laboratory of Chinese Academy of Sciences, is carrying out the antiviral test on the colloidal silver ion disinfectant. Recently, the highly-efficient, non-toxic, broad-spectrum and antibacterial disinfectant, employing the new nano silver ion technology and pure physical method, has been developed successfully in Beijing.



Reported by more than 10 leading media including people.cn, CCTV, China Daily and china.com.cn



Beijing Times Quankang Technology Co., Ltd.

400-696-0838



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## Colloidal silver-enemy to bacteria, viruses and fungi

Edited and translated by Yun Ni, **New Vision of Health**, 3rd February

Most of us nowadays live in a world with over-developed mainstream health care. We have always been instilled a thought of western medicine that if we got sick, virus was the origin which would be killed as long as we found out corresponding chemical antibiotics. However, there are hundreds of thousands of viruses that are invisible. If one was killed, more varieties would emerge, which stops human being from winning the battle against virus.

In fact, long before the invention of antibiotics in the pharmaceutical industry, mankind had experienced plagues and infectious diseases in different ages, from the 11<sup>th</sup> century ergot disease (caused by stale rye, which leads to amputated limb, cramps, etc.), the 12<sup>th</sup> century smallpox and leaf epidemic, the 13<sup>th</sup> century leprosy, the 14<sup>th</sup> century black death, 15<sup>th</sup> century syphilis, 16<sup>th</sup> century dysentery, 17<sup>th</sup> century tuberculosis, 18<sup>th</sup> century typhoid fever, 19<sup>th</sup> century cholera to 20<sup>th</sup> century HIV/AIDS, and so on.

Nowadays, with the so-called "advanced medical level", our fight against the virus, however, seems to be out of control - virus like ebola, bird flu and anthrax are so terrible that they are used as terrorist weapons. Infectious diseases once again become the third leading cause of death in the United States with advanced health care as the third millennium approached.



# Colloidal silver-fighter against all killers

Don't forget that the overuse of antibiotics has led to more and more pathogens immune to them. Additionally, antibiotics would significantly weaken immune system while eliminating 12 different pathogens.

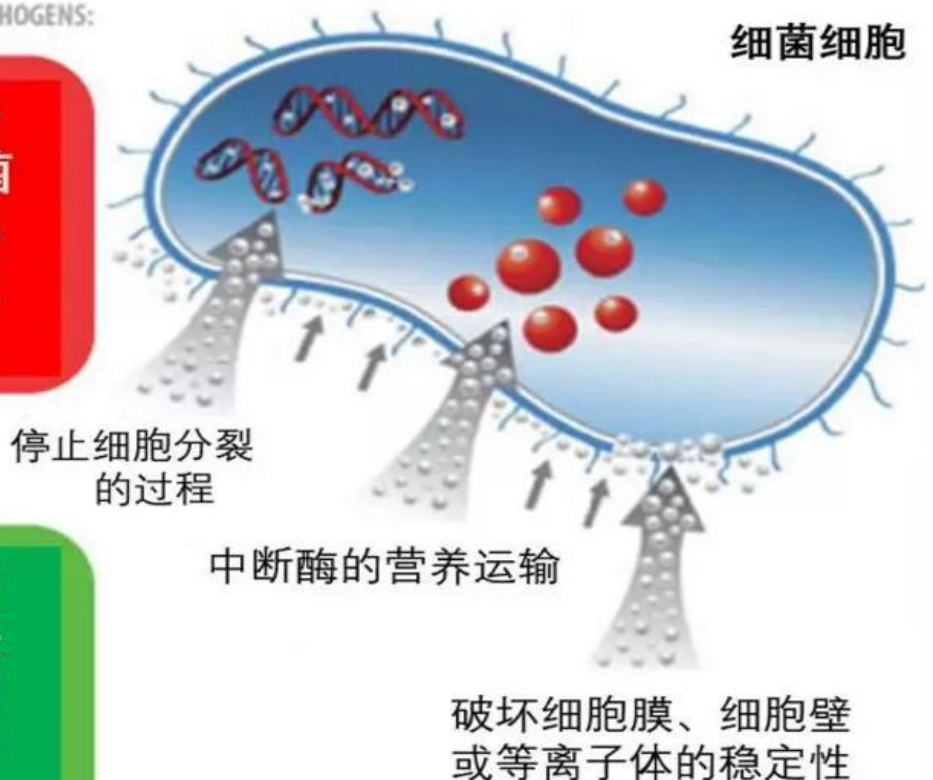
The real rescue came from nature once again. As long as human being exists, there's always one way to fight against each known bacteria, each bacteria "malevolent" colonizing human, each virus, and each spreading movement against fungi: **colloidal silver**.

Colloidal silver could kill 650 **pathogens within up to six minutes** after ingestion, including pathogenic microorganism already immune to antibiotics. It does not attack any important bacteria in the body, but only attacks aggressive mutants. Colloidal silver has no side effects and can also strengthen the immune system, rather than weakening it like antibiotics. It doesn't interfere with any other drugs, and doesn't cause upset stomachs; instead, it is helpful for digestion.

## EXAMPLE OF SILVER'S EFFECTS ON PATHOGENS:

抗生素只能攻击一个部位。细菌可以适应这一部位的攻击并产生抗药性。

银离子攻击细菌细胞壁周围的任何位置，因此细菌无法适应并产生抗药性。





According to the medical journal, colloidal silver is an effective broad-spectrum natural "antibiotic". All single-celled parasites (fungi, bacteria, viruses) need an enzyme to exchange oxygen. Tiny colloidal silver particles can penetrate single-celled bacteria to prevent enzymes generating oxygen. The parasite's metabolism stagnates and it dies. That is, **colloidal silver allows harmful bacteria, viruses and parasites to lose their offspring in shortest time.** It has shown by experience that colloidal silver does not damage health-promoting bacteria and not affect normal skin cells.

1. Colloidal silver can inhibit phosphomannose isomerase in yeast;
2. It inhibits the release of histamine and prostaglandin in allergic and inflammatory reactions;
3. It buffers excessive immune system responses, thereby relieving symptoms of allergies and inflammation;
4. In the case of open wound, it has a contraction effect on the wound surface, greatly accelerating the healing;
5. It keeps skin elastic in areas of mechanical stress. Colloidal silver can bind redundant electrons in the body. Therefore, it supports detoxification from heavy metal pollution.

**Silver not only has destructive effect to harmful forms of life, but also supports formation of important tissues in human body.** For example, Dr. Robert O. Becker, author of *The Body Electric* and a prominent biomedical researcher at Syracuse University, who believes that silver creates deep healing stimuli for skin and other fragile tissues. It promotes bone growth in a special way and speeds up healing by more than 50%. "These cells grow rapidly, producing an amazing collection of primitive cell forms which can reproduce at high speed and then differentiate into specific cells for organs or damaged tissues, even in patients over the age of 50." Dr. Becker has even found that colloidal silver can transfer cancer cells into normal cells.

Dr. Becker was also aware of the relationship between low silver content and disease. The average silver content in the body is 0.001%. Becker claimed that decrease of this value was the cause of abnormal immune system function. As a result, silver appears to play an important role in the basic processes of human body.



## Detailed scope of colloidal silver:

### 1. Pneumonia

Our modern medicines have limited effectiveness in fight against bronchitis or pneumonia. Usually, antibiotics are the first line of defense, but when the pneumonia virus is infected, antibiotics don't help at all. The advantage of colloidal silver is that it can provide help regardless of the pathogen. When taken internally, colloidal silver is an excellent product against bronchitis and pneumonia.

But what is a more effective way to use it? **Just breathe it directly into your lungs.**

Inhaled directly through a spray device, so that the silver comes into direct contact with the lung bacteria that cause bronchitis or pneumonia. This is basically the same as using respiratory support and can work quickly and clean up in a few days.

### 2. Anti-inflammatory

Colloidal silver **is an excellent anti-inflammatory medicine.**

Case study: NIH researchers checked the effects of treating inflammation with colloidal silver. They found that the infected skin of pigs treated with silver almost returned to normal skin in 72 hours, while the other untreated groups remained inflamed.

**Colloidal silver reduces swelling, accelerates healing and promotes cell renewal!**



### 3. Conjunctivitis/ear infection

Conjunctivitis, also known as red-eye disease, is an inflamed mucous membrane that covers the eyes and eyelids and is caused mainly by bacteria or viral infection. Colloidal silver can be used immediately against these irritating and highly infectious viruses and bacteria.

When sprayed directly on infected eyes, the tiny silver gel can absorb the infected cells by electromagnetism attracting and sending them into the bloodstream to eliminate. Our modern prescription antibiotics are intended to fight against certain kinds of bacteria, but ear infections can be caused by a variety of bacteria and even fungi. In this case, prescription antibiotics are useless, while colloidal silver is effective against infections under all causes.

### 4. Wound care/skin health

Robert O. Becker, m.d said colloidal silver stimulated the healing of skin and other soft tissues. A study published by Pharmacognosy Communications in 2012 explicitly recommended that colloidal silver formulations would be considered for local use in burns, thrush, periodontitis and other disease conditions.

For example, you can treat ringworm with colloidal silver at home because it is an effective antifungal agent. Ringworm is caused by fungi that live on the surface of the skin, is circled and flaky spot. It is contagious and spreads through skin contact and contaminated materials such as clothing.

Colloidal silver relieves and even repairs tissue damage caused by burns, having soothing effect. In fact, in a study by the Journal of Family Medicine and Primary Care, silver-based colloidal nanogels have been successfully used as dressing for bullet wounds in surface. Gel dressings based on silver nanoparticles for wounds and even chronic wounds are becoming more common.

Historically, silver has been used for burns locally, but its use was artificially discontinued after the advent of antibiotics. However, in 1960s it became popular again. SSD creams produced with combination of silver nitrate and sulfadiazine sodium has caused many patients to recover from burns.



## Does colloidal silver have side effects?

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If the colloidal silver is purchased through regular channels, **it is safe and reliable with no side effect as the colloidal silver is made with highly purified distilled water and 99.99% medical silver through strict manufacturing process.** In theory, overdosing is also impossible because you will have to drink at least 800mm, nearly a litre at a time. High-quality colloidal silver is supplied to the body more or less like a microelement and is excreted through kidneys or intestines within a day or two after it has completed its task in the body. Colloidal silver should be avoided in cases of renal insufficiency.

## Usage area & how to use?

Colloidal silver is widely used to cure, for example, eye disease (inflammation, ulcer), respiratory disease (flu, whooping cough, pneumonia, angina, sinusitis, runny nose, etc.), skin disease (acne, dermatitis, fungi, herpes simplex and herpes zoster, etc.), the genital area disease (bladder inflammation prostate problems, etc.), the digestive tract disease (diarrhea, gastritis, infection), and other various diseases (ear infections, scarlet fever, etc.).

If there is inflammation in the throat or mouth, **gargle and rinse with colloidal silver. Also it can be sprayed directly in affected part of mucous membrane without no irritation.** It is recommended to spray directly for many other diseases, such as sunburn, open wounds, eye or ear inflammation.

External usage applies to skin disease such as acne, warts, open wounds, herpes, psoriasis (psoriasis), athlete's foot and similar symptoms. For such diseases, a cloth impregnated with colloidal silver may be used to wipe the affected area. Another way is to try to use bandages soaked in colloidal silver, for example, for warts, cuts and scrapes.

It can also be used to spray in ambient environment to clean and purify space, killing virus and disinfecting.





# 出品单位



统一社会信用代码

91110105MA01NRT95W

## 营业执照

(副本) (1-1)



名称 裁康(北京)生物科技有限公司

类型 有限责任公司(自然人投资或控股)

法定代表人 刘红国

经营范围 技术推广服务;应用软件开发(不含医用软件);基础软件服务;计算机系统服务;组织文化艺术交流活动(不含演出);会议及展览服务;设计、制作、代理、发布广告;市场调查;企业策划;销售化妆品、日用品、服装、鞋帽、针纺织品、工艺品、文具用品、体育用品、机械设  
备、皮革制品(不含野生动物皮张)、五金交电、建筑材料、厨房用具、卫生间用具、家用电器、通讯设备、I类、II类医疗器械;经济贸易咨询;健康咨询(须经审批的诊疗活动除外);健康管理(须经审批的诊疗活动除外);餐饮管理;代理进出口、货物进出口、技术进出口;销售食品;销售III类医疗器械。(企业依法自主选择经营项目,开展经营活动;销售食品、销售III类医疗器械以及依法须经批准的项目,经相关部门批准后依批准的内容开展经营活动;不得从事本市产业政策禁止和限制类项目的经营活动。)

注册资本 500万元

成立日期 2019年11月19日

营业期限 2019年11月19日至2039年11月18日

住所 北京市朝阳区望京东园四区13号楼-4至33层101内17层17B8017室

登记机关



2020年04月13日

国家企业信用信息公示系统网址: <http://www.gsxt.gov.cn>

市场主体应当于每年1月1日至6月30日通过  
国家企业信用信息公示系统报送公示年度报告。

国家市场监督管理总局监制

# 委托单位



统一社会信用代码

91110105777068530W

## 营业执照

(副本) (1-1)



扫描二维码登录  
“国家企业信用  
信息公示系统”  
了解更多登记、  
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管信息

名称 北京时代量子康科技有限公司

类型 有限责任公司(自然人独资)

法定代表人 林雅洁

经营范围 技术推广服务；销售医疗器械一类、服装、避孕套、日用品、化工产品（不含危险化学品）、卫生用品、消毒用品、电子产品、汽车。（企业依法自主选择经营项目，开展经营活动；依法须经批准的项目，经相关部门批准后依批准的内容开展经营活动；不得从事本市产业政策禁止和限制类项目的经营活动。）。

注册资本 1500万元

成立日期 2005年06月29日

营业期限 2005年06月29日至 长期

住所 北京市怀柔区庙城镇庙城村临300号401室

登记机关



国家企业信用信息公示系统网址: <http://www.gsxt.gov.cn>

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国家市场监督管理总局监制



# 生产单位



编号 320281666202002180011

统一社会信用代码

91320281142263113X

(1/1)

## 营业执照

(副本)



扫描二维码登录“国家企业信用信息公示系统”了解更多登记、备案、许可、监管信息。

名称 无锡市伙伴日化科技有限公司

注册资本 508.8万元整

类型 有限责任公司

成立日期 1984年09月17日

法定代表人 孔葵生

营业期限 1984年09月17日至2036年10月19日

经营范围 清新剂的研究、开发、制造、加工；杀虫气雾剂的研究、开发；金属罐、制罐机械的制造、加工；清新剂、清洗剂的代罐装；植物油、化妆品生产；包装装潢印刷品排版、制版、印刷、装订；其他印刷品印刷；清洁用品、化妆品、卫生用品、日用品、化工产品（不含危险品）、润滑油的销售；自营和代理各类商品及技术的进出口业务，但国家限定企业经营或禁止进出口的商品和技术除外。消毒剂生产；用于传染病防治的消毒产品生产；消毒剂销售（依法须经批准的项目，经相关部门批准后方可开展经营活动）

住所 江阴市徐霞客镇土东村上东路2号（经营场所/江阴市徐霞客镇土东村上东路6号）

登记机关

2020 年 09 月 18 日

国家企业信用信息公示系统网址：<http://www.gsxt.gov.cn>

市场主体应当于每年1月1日至6月30日通过国家企业信用信息公示系统报送公示年度报告。

国家市场监督管理总局监制

## 消毒产品生产企业卫生许可证

苏卫消证字（2019）第 3202-0016 号

单位名称：无锡市伙伴日化科技有限公司

法定代表人（负责人）：孔葵生

注册地址：江阴市徐霞客镇土东村上东路2号

生产地址：江阴市徐霞客镇土东村上东路2号

生产方式：生产

生产项目：消毒剂、卫生用品

生产类别：液体消毒剂、喷雾剂消毒剂、抗（抑）菌制剂（栓剂、皂剂除外）液体、喷雾剂（净化）

有效期限：2019年9月29日至2023年9月28日

注：本许可证只对许可批准时的生产条件负责，不是对企业所生产产品的许可，不代表对企业生产产品卫生质量的认可。应在卫生许可证有效期届满前30个工作日之前提出延续申请。

江苏省卫生健康委员会

批准日期 2020 年 09 月 18 日 变更



## ISET S.r.l. Unipersonale

Sede Legale e Uffici

Via Donatori di sangue, 9 - 46024 Moglia (MN)

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[www.iset-italia.eu](http://www.iset-italia.eu) [iset@iset-italia.com](mailto:iset@iset-italia.com)

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REA

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€ 10.200,00

02 332 750 369

02 332 750 369

MN 0221098

# CERTIFICATE

Certificat - Certificado- Сертификат - Zertifikat - 證書

- 1) **APPLICANT:** (who finally puts the product on the market)

Beijing Times Quankang Technology Co., Ltd.

Room 401, No. 300, Miaocheng Village, Miaocheng District, Huairou District, Beijing

- 2) **CERTIFICATE NO.:** ISETC.002520200323

**FILE REFERENCE:** TR-024-348-38467EN

- 3) **ISET MARK:**



- 4) **CAUTION ABOUT CE MARKING** (Instruction for the Applicant who puts the product on the EU market):



The label of the CE Marking on the left side should be not less than 5mm height. CE Marking and EC Declaration of Conformity are duties for the manufacturer or its applicant who puts the product on the market. This one is responsible to start the CE marking and certification procedure as required by the legislation in force. Only for the products which are compulsorily included into specific Directives or Regulations will be necessary to appoint a Notified Body.

- 5) **TYPE OF PRODUCT:** Oxygen-Silver ion antibacterial spray

**MODEL(S):** Oxygen-50ml, Oxygen-100ml, Oxygen-120ml, Oxygen-300ml ,  
Oxygen-500ml, Oxygen-1L, Oxygen-5L, Oxygen- 20L

- 6) **LIST OF DIRECTIVES / REGULATIONS /STANDARDS** (as declared by the manufacturer itself)

REGULATION concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) 1907/2006  
EN 1499:2013

- 7) **NOTE:** The applicant is aware about the contents and information included in the ModCOM04.06 Regulation for this type of Certificate that is considered totally accepted. The latest revision of the Regulation is available and can be downloaded from the website [www.iset-italia.eu](http://www.iset-italia.eu). This document is not referred to any evaluation that could be considered as included in the scope of the activities covered by the standard BS EN ISO/IEC 17065:2012 or European Regulation 765/2008.

- 8) **REMARK:** Certificate is issued on voluntary application from the Client and it gives to the applicant the right to use and affix the ISET Mark (at point 3) on their products, even if it doesn't imply any assessment on the safety and compliance of the product. ISET declares that the only scope of the assessment is to verify the existence of the declaration issued by the manufacturer or an applicant under its own responsibilities.

- 9) **DATE OF ISSUE:** 23/03/2020

**EXPIRY DATE:** 22/03/2025

- 10) **SIGNATURE:** Xiao Ming

(On behalf of the Legal representative)





## Guangdong Microbiological Analysis and Testing Center

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

# Analysis test report

REPORT FOR ANALYSIS

Report No.

2020FM01684R01

**Report No.**

Sample Name

Oxfam Silver Ion Antibacterial  
Spray

**Name of Sample**

Entrusting unit

Beijing Time Quantum Kang  
Technology Co. Ltd.

**Applicant**

Type of  
**Test Type**

Unit

Address: No.100 Xianlie Zhong Road,

**Address:** Guangzhou

Postcode:

**Postcode:**

Telephone

Number:

**Tel:**

Fax No.:

**Fax :**

Website:

**Website :**

院 66 号楼  
No.100 Xianlie Zhong Road, Guangzhou, China  
Building 66, No.100 Central Xi



Guangdong Microbiological  
Analysis and Testing Center  
GUANGDONG MICROBIOLOGICAL ANALYSIS AND TESTING CENTER

Stone 00,201819000883,

Test Report

REPORT FOR ANALYSIS



Report No.: 2020 FM01684R01 Checkcode (Verification Code): 20586143

Name of Sample sample name	Oxfam Silver Ion Antibacterial Spray	Detection type Test Type	Commissioned testing
Entrusting unit Applicant	Beijing Time Quantum Kang Technology Co. Ltd.	Address Address	Miaocheng Village, Miaocheng District, Huairou District, Beijing Room 401 300
Source of sample Sample Source	Submitted by Client	Sample quantity Sample Quantity	4 bottles
Spec and Lot JN of Sample of sample specifications and lot	3 ml/ bottles, HB20200210	Sample status and characteristics State and	Liquidity
Sample date Sample Received Date	2020-02-15	Completion Date of test completion date	2020-03-06
Basis and methods of detection Test Standard and Method	GB 15979-2002 Appendix B 、 Appendix C3		
Testing items Item Tested	Total bacterial colonies, total fungal colonies, coliform bacteria, Staphylococcus aureus, Pseudomonas aeruginosa, Streptococcus haemolyticus, neutralizer identification test, bactericidal performance		
Findings Test Conclusion	<p>1. Detection of microbial index: the test results of coliform group, Pseudomonas aeruginosa, Staphylococcus aureus, Streptococcus haemolyticus, total bacterial colony and total fungal colony of the items examined in this sample meet the requirements of GB 15979-2002 《 sanitary standard for disposable use of sanitary articles ”.</p> <p>2. neutralizing agent identification test: PBS solution containing 3% tween-80, 0.5% sodium thiosulfate, 0.5% L- histidine, 0.5% protein gland, 0.85% sodium chloride, 1.43% lecithin, 0.1% cysteine, can effectively neutralize "oxyacon brand silver ion antibacterial spray" stock solution, and neutralizing agent and neutralizing product have no adverse effect on e. coli and candida albicans.</p> <p>3. Sterilization performance test: the sample stock solution, action time of 2 min 、 5min 、 10min 、 20min, on the large intestine</p> <p>the bactericidal rates of bacilli (ATCC 25922), staphylococcus aureus (ATCC 6538) and candida albicans (ATCC 10231) &gt; 99.99%, which meet the standard values specified in appendix C3 of the GB 15979-2002 (sterilization rate &gt; 90%) and have bactericidal effect on the tested strains.</p> <p>*****jz7*7r^&gt;^</p>		
Remarks Remarks	Manufacturer: Wuxi Partner Daily Chemical Technology Co., Ltd. XT (provided by client) Jx		

Tabulation:  
Editor

Audit:  
Verifier

*Signature*

Ratification: Lin Long  
Approver r Ni [Bu





Guangdong Microbiological Analysis  
and Testing Center

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

Analysis of test results

ANALYSIS AND TEST RESULT

(Report JNk):

2020FM01684R01

Sample	Oxfam Silver Ion Antibacterial Spray	Sample	2020-02-15
Name	Total bacterial colonies, total fungal	date	
Inspection	colonies, coliform bacteria,	Completion date	2020-02-24
items	Staphylococcus aureus,	of inspection	
	Pseudomonas aeruginosa,		
	<u>Streptococcus haemolyticus</u>		

- . Equipment:

test sample: oxycon brand silver ion

2. reagent:

3. lactose bile salt fermentation tube, SCDLP glucose broth. plate: hexadecane trimethyl moyemate hyun agar plate, blood agar

4. plate.Medium: Nutrient Agar, Sargassum Agar.

II. Method:

1. Test basis: GB 15979-2002 《 disposable sanitary products hygiene standards appendix B product microbial detection method.
2. Detection conditions: ambient temperature 23.2 ° C, relative humidity 53%.

III. Results:

Testing indicators	Standard values	Measured values
Total bacterial colonies (cfii/mL)	W200	<1
Total fungal colonies (cfu/mL)	C100	<1
Coliform bacteria	Not detectable	Not detected
Staphylococcus aureus	Not detectable	Not detected
Pseudomonas aeruginosa	Not detectable	Not detected
Streptococcus haemolyticus	Not detectable	Not detected

Note: All negative controls grew sterile.

IV. Conclusion:

Detection results of coliform bacteria, Pseudomonas aeruginosa, Staphylococcus aureus, Streptococcus haemolyticus, total bacterial colonies, total fungal colonies of the items examined in this sample meet the requirements of GB 15979-2002 《 sanitary standards for disposable use of sanitary articles.



(next page)

## Guangdong Microbiological Analysis and Testing Center

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

## Analysis of test results

ANALYSIS AND TEST RESULT

Report No. (Reports.):2020FM01684R01

Sample Name	Oxfam Silver Ion Antibacterial Spray	Sample date	2020-02-15
Inspection items	Identification test of neutralizer,	Completion date of	2020-03-06

## ... equipment:

1. strains tested: *E. coli* (*Escherichia coli*)(ATCC 25922), *Staphylococcus aureus* (*Staphylococcus aureus*)(ATCC6538) and *Candida albicans* (*Candida albicans*)(ATCC10231) above the strain algebra for the fifth generation, strain source: Guangdong Province Microorganisms

Strain preservation center.

2. test sample: oxykang brand silver ion antibacterial spray.

## 二. Method:

- Preparation of bacterial suspension: according to GB 15979-2002 appendix C test method of product sterilization performance, neutralizer identification, the content of bacteria was selected as  $1 \times 10^4$  cfu/ $\sim 9 > 10^4$  cfu/ tablets of bacterial suspension were tested.
- Sterilization performance: according to the GB 15979-2002 appendix C3 to carry out the bactericidal performance test, with the sample stock solution, the action time is 2 min 、 5min 、 10min>20 min, test repeated 3 times.
- Neutralizer: PBS solution containing 3% Tween-80, 0.5% sodium thiosulfate ,0.5% L- histidine ,0.5% protein Yuedong ,0.85% sodium chloride ,1.43% lecithin ,0.1% cysteine.
- Inspection conditions: Temperature :23.0 ° C—23.4 ° C, Humidity :52%~54%.

## 三. Results:

## 1. neutralizer identification test:

Action Concentration and Time	Test strains	Group	Number of colonies per test group (cfu/ tablets)		
			1	2	3
Raw stock 30 seconds	<i>Escherichia coli</i>	+5 mL PBS of 1 stain sample	<5	<5	<5
		+5 neutralizing agents mL 2 bacteriological	60	90	80
		Photograph +5 mL neutralizer	3.9* W	4.0x10 <sup>4</sup>	3.7 xio <sup>4</sup>
		Photographs of 4 samples +5 mL	3.2X10 <sup>4</sup>	3.6x10 <sup>4</sup>	3.2X10 <sup>4</sup>
	ATCC 25922	Photograph of 5 mL PBS +5.	3.6*10 <sup>4</sup>	4.2X10 <sup>4</sup>	3.6X10 <sup>4</sup>
		6 PBS of same lot	Sterile growth	Sterile growth	Sterile growth
		7 Same batch neutralizer	Sterile growth	Sterile growth	Sterile growth
		8 Same batch medium	Sterile growth	Sterile growth	Sterile growth

Note :1.3 Repeated Tests 3,4,

The error rates among the five groups were 6.48%,5.98% and



## Guangdong Microbiological Analysis and Testing Center

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

### Analysis of test results

#### ANALYSIS AND TEST RESULT

Report No. (Reports.): 2020FM01684R01

Sample Name Oxfam Silver Ion Antibacterial Spray Sample date 2020-02-15  
Inspection items Identification test of neutralizer, bactericidal property Completion date of inspection 2020-03-06

(continued)

Concentration		Number of colonies per test group (cfu/ tablets)			
Time and Time	Test strains	Group	1	2	3
		+5 mL.PBS of 1 stain sample	<5	<5	<5
		+5 neutralizing agents mL 2	85	60	50
	Candida albicans	Photograph +5 mL neutralizer	2.8X10 <sup>4</sup>	3.0x"	3.0X10 <sup>4</sup>
Raw stock	(Candida)	Photographs of 4 samples +5 mL	2.2x10 <sup>4</sup>	2.4* If/	2.4* IO,
30 seconds	albicans)	Photograph of 5 mL.PBS +5.	2.9X10 <sup>4</sup>	2.6* IO,	3.0X10 <sup>4</sup>
	ATCC 10231	6 PBS of same lot	Sterile growth	Sterile	Sterile growth
		7 Same batch neutralizer	Sterile growth	Sterile	Sterile growth
		8 Same batch medium	Sterile growth	Sterile	Sterile growth
Note :1.3 Repeated Tests 3,4,		The error rates between the five groups	8.64%,9.52%		
2. experimental results show that the neutralizer is qualified.					

2 Kill sex,

(D sample concentration and time: the sample stock solution,

Action time 2 min

Testing of microorganisms	Serial number	Live bacteria in test group	Live bacteria in control group	Sterilization rate (%)
Escherichia coli (Escherichia coli) ATCC 25922	1	<5	5.9X10 <sup>4</sup>	>99.99
	2	<5	6.2x10 <sup>4</sup>	>99.99
	3	<5	6.6x10 <sup>4</sup>	>99.99
	Average		6.2x10 <sup>4</sup>	>99.99
Staphylococcus aureus (Staphylococcus aureus) ATCC 6538	1	<5	7.5X10 <sup>4</sup>	>99.99
	2	<5	6.9X10 <sup>4</sup>	>99.99
	3	<5	6.4x10 <sup>4</sup>	>99.99
	Average		6.9x10 <sup>4</sup>	>99.99
Candida albicans (Candida albicans) ATCC 10231	1	<5	6.0x10 <sup>4</sup>	>99.99
	2	<5	5.6X10 <sup>4</sup>	>99.99
	3	<5	7.0 xi (04	>99.99





## Guangdong Microbiological Analysis and Testing Center

### GUANGDONG DETECTION CENTER OF MICROBIOLOGY

### Analysis of test results

#### ANALYSIS AND TEST RESULT

Sample Oxfam Silver Ion Antibacterial Sample 2020-02-15

; The concentration and time of the action of the tube: the sample stock solution min 5 times

Testing of microorganisms	Serial number	Live bacteria in test group (cfu/)	Live bacteria in control group (cfii/)	Sterilization rate (%)
Escherichia coli <i>QEscherichia coli</i> ATCC 25922	1	<5	5.3X10 <sup>4</sup>	>99.99
	2	<5	6.5x10 <sup>4</sup>	>99.99
	3	<5	6.4x10 <sup>4</sup>	>99.99
	Average		6.1X10 <sup>4</sup>	>99.99
Staphylococcus aureus <i>(Staphylococcus aureus)</i> ATCC 6538	1	<5	7.0x10 <sup>4</sup>	>99.99
	2	<5	6.3x10 <sup>4</sup>	>99.99
	3	<5	6.1X10 <sup>4</sup>	>99.99
	Average		6.5X10 <sup>4</sup>	>99.99
Candida albicans <i>(Candida albicans)</i> ATCC 10231	1	<5	6.5X10 <sup>4</sup>	>99.99
	2	<5	6.0x10 <sup>4</sup>	>99.99
	3	<5	7.2X10 <sup>4</sup>	>99.99
	Average		6.6X10 <sup>4</sup>	>99.99

Identification test of neutralizer,  
bactericidal property

Inspection  
items

Completion date  
of inspection

Report No. (Reports.): 2020FM01684R01

(3) Sample action concentration and time: the sample stock solution, action time 10 min.

Testing of microorganisms	Serial number	(cfii/ tablets)	(cfii/ tablets)	Sterilization rate (%)
<sup>^</sup> Escherichia coliD ATCC 25922 of <i>Escherichia coli</i>	1	<5	6.0x10 <sup>4</sup>	>99.99
	2	<5	6.8X10 <sup>4</sup>	>99.99
	3	<5	6.2X10 <sup>4</sup>	>99.99
	Average		6.3X10 <sup>4</sup>	>99.99
Staphylococcus aureus <i>(Staphylococcus aureus)</i> ATCC 6538	1	<5	6.8x10 <sup>4</sup>	>99.99
	2	<5	6.4x10 <sup>4</sup>	>99.99
	3	<5	5.8x10 <sup>4</sup>	>99.99



## Guangdong Microbiological Analysis and Testing Center

## GUANGDONG DETECTION CENTER OF MICROBIOLOGY

## Analysis of test results

## ANALYSIS AND TEST RESULT

Report No. (Reports.): 2020FM01684R01

Sample Name	Oxfam Silver Ion Antibacterial Spray	Sample date	2020-02-15
Inspection items	Identification test of neutralizer, bactericidal property	Completion date	2020-03-06

## Concentration and time of action :20 min of action time of stock solution

Testing of microorganisms	Serial number	(cfii/ tablets)	(cfil/ tablets)	Sterilization rate (%)
<i>E. coli</i> { <i>Escherichia coli</i> } ATCC 25922	1	<5	5.5X10 <sup>4</sup>	>99.99
	2	<5	6.3X10 <sup>4</sup>	>99.99
	3	<5	6.8X10 <sup>4</sup>	>99.99
	Average		6.2x10 <sup>4</sup>	>99.99
<i>Staphylococcus aureus</i> ( <i>Staphylococcus aureus</i> ) ATCC 6538	1	<5	6.6x10 <sup>4</sup>	>99.99
	2	<5	5.7 O'1	>99.99
	3	<5	6.2* IO,	>99.99
	Average		6.2* IO,	>99.99
<i>Candida albicans</i> ( <i>Candida albicans</i> ) ATCC 10231	1	<5	5.7 x10 <sup>4</sup>	>99.99
	2	<5	6.1X10 <sup>4</sup>	>99.99
	3	<5	6.8X10 <sup>4</sup>	>99.99
	Average		6.2 inches	>99.99

## IV. Conclusions

1. neutralizing agent identification test: PBS solution containing 3% tween-80, 0.5% sodium thiosulfate, 0.5% L- histidine, 0.5% protein gland, 0.85% sodium chloride, 1.43% lecithin, 0.1% cysteine, can effectively neutralize "oxyacon brand silver ion antibacterial spray" stock solution, and neutralizing agent and neutralizing product have no adverse effect on e. coli and candida albicans.
2. Sterilization performance test: the sample stock solution, the action time is 2 min、5min>10 minmin、5min>20, respectively min, the sterilization rate of *Escherichia coli* (ATCC 25922), *Staphylococcus aureus* (ATCC6538) and *Candida albicans* (*Candida albicans*)>99.99%, which meets the standard value specified in Appendix C3 of the GB 15979-2002(sterilization rate 290%), and has bactericidal effect on the tested strains. (Blank below)



# Security (SDS)

Original date :2020/03/16

Revision Date :2020/03/16

Version 20200316

Based on the eighth revised edition

Product Name: Oxycon Silver Ion  
Antibacterial Spray

Customer Name: Beijing Time Quantum Kang

Prepared by 通剑检测技术(上海)有限公司



## General I li§ Test

TJTest Technology Co.,Ltd.



# General 1 ili§ Test

TJTEST Technology Co.,Ltd.

T200316029A

## 1. chemicals and business identity

### 1.1 Product identification

Product Name: Oxycon Silver Ion Antibacterial Spray

Model/specification :/

### 1.2 Products recommended and restricted

Recommended use of the product: Please consult the manufacturer.

restricted use of the product: please consult the manufacturer.

### 1.3 Security Data Sheet Provider Information

Company Name: Beijing Times Quangkang Technology Co., Ltd.

Business Address :/

Contact :+86(0)18618280838

Fax :/

Postcode :/

E-mail :18618280838@163.com

**1.4 Business Emergency Telephone :+86(0)18618280838**

## 2. Risk profile

2.1 GHS Hazard Category: This product does not belong to dangerous goods, no hazard classification.

2.2 GHS labelling elements

pictogram: none.

Signal word: None.

2.3 Hazard statement: No information.

2.4 Precautionary note

2.4.1 preventive measures

No information available.

2.4.2 incident response

No information available.

2.4.3 safe storage

No information available.

2.4.4 waste disposal

No information available.

2.5 Hazard description

2.5.1 physical and chemical hazards

This product is used normally without harm.

2.5.2 health hazards

No information available.

2.5.3 environmental hazards

see part 12 of SDS.

## 3. Composition/composition information

Material mouthing products.

Chemical name	CAS No.	EC No.	Composition ratio (%)
---------------	---------	--------	-----------------------

# General İliş Test

TJTEST Technology Co.,Ltd.

T200316029A

Silver ions			0.002-0.003
Pure water	7732-18-5	231-791-2	99

## 4. First Aid Measures

### 4. Description of First Aid Measures

General Recommendation: First aid measures are usually required, please show this SDS to the doctor who arrives at the scene. Skin contact: Wash with plenty of water and remove contaminated clothing and shoes.

Eye contact: Wash with flowing water or saline and consult a doctor if necessary.

Inhalation: Move to fresh air to keep the respiratory tract open. If there is any discomfort, please consult a doctor.

Camera In: clean mouth, urge vomiting, consult a doctor.

First aid personnel protection: ensure that medical staff understand the hazard characteristics of the product and take self-protection measures to protect themselves and prevent the spread of pollution.

### 4. 2 Description of emergency medical treatment and special treatment

1. according to the symptoms of the occurrence of targeted treatment.
2. note that symptoms may be delayed.

## 5. Fire Protection Measures

### 5. 1 Fire extinguishing media

1. Suitable extinguishing media: fog water, anti-soluble foam, dry powder, carbon dioxide, sand.
2. Inappropriate extinguishing media: Avoid using too strong water vapor to extinguish the fire, as it may spread the flames scattered.

### 5. 2 Special hazards arising from the substance or mixture

1. no information.

### 5.3 Recommendations for firefighters

1. During fire extinguishing, wear breathing mask (which meets MSHA/NIOSH requirements or equivalent) and wear full body protective clothing.

2. Extinguish fire at a safe distance with adequate protection.

3. prevent fire water from contaminating surface and groundwater systems.

## 6. leakage emergency response

### 6.1 Protective measures for operators, protective equipment and emergency procedures

1. It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus, anti-virus, anti-static clothing and chemical anti-osmotic gloves. Ensure adequate ventilation. Clear all ignition sources.
4. Quickly evacuate personnel to safe areas, away from leaking areas and in the upper direction. Use personal protective equipment. Avoid inhalation of vapors, fumes, gases or dust.

### 6. 2 Environmental protection measures

1. Take measures to prevent further leaks or spills while ensuring safety.
2. avoid discharge into the surrounding environment.

### 6.3 Shelter, removal methods and disposal materials used for leaking chemicals

# General I ili§ Test

TJTEST Technology Cu.,Ltd.

T200316029A

1. attachments or collections shall be stored in suitable closed containers and disposed of in accordance with the relevant local laws and regulations.

2. Clear all ignition sources and use fire proof tools and riot control equipment.

## 7. operations disposal and storage

### 7.1 Operational considerations

1. airtight operation, fully ventilated.



2. Operators must be specially trained and strictly follow the operating procedures.
3. It is recommended that operators wear self-suction filter dust mask and chemical safety protective glasses.
4. Keep away from fire, heat source, no smoking in the workplace.
5. Use explosion-proof ventilation systems and equipment.
6. Avoid contact with oxidant, reducing agent, halogen.
7. equipped with corresponding varieties and quantities of fire fighting equipment.
7. 2 Storage precautions
  1. Store in a cool, ventilated warehouse.
  2. Away from fire, heat source.
  3. Should be stored separately with oxidant, reducing agent, halogen and so on, avoid mixed storage.
  4. Use explosion-proof lighting, ventilation facilities.
  5. The use of spark-prone machinery and tools is prohibited.
  6. The storage area shall be equipped with emergency leak handling equipment and suitable shelter materials.

## 8. exposure control and personal protection

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limit International Occupational Exposure Limit

Components	Country/region	Occupational	Gen (8 h)	Limit of	t (short duration)
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
All components of this product	America-0 SHA	Not provided	Not provided	Not provided	Not provided
	Korea	Not provided	Not provided	Not provided	Not provided
	Ireland	Not provided	Not provided	Not provided	Not provided
	Germany (AGS)	Not provided	Not provided	Not provided	Not provided
	Denmark	Not provided	Not provided	Not provided	Not provided
	Australia	Not provided	Not provided	Not provided	Not provided

#### 8.1.2 biological limit: no data

#### 8.1.3 Monitoring Methods

1. guidelines for procedures EN 14042 workplace air for assessing exposure to chemical or biological reagents.
2. GBZ/T 160.TGBZ/T 160.81-2004 workplace air toxic substances determination (series standards).

#### 8.2 Engineering control

1. Maintain adequate ventilation, especially in enclosed areas.
2. Ensure eye wash and shower facilities near the workplace.
3. Use explosion-proof appliances, ventilation, lighting and other equipment.
4. Set up emergency evacuation passages and necessary escape zones.

#### 8. 3 PPE

General requirements:



# General 1 iliş Test

TJTEST Technology Co., Ltd.

T20031602

9A hand protection: Wear chemical protective gloves (e.g. butyl rubber gloves). suggest to select protective gloves tested by eu EN374、 us US F739 or AS/NZS 2161.1 standards.

Respiratory protection: If the vapour concentration exceeds the occupational exposure limit or symptoms such as irritation occur, use a full mask type multifunctional gas mask (US) or AXBEK type (EN 14387) antivirus mask cartridge.

skin and body protection: wear flame retardant anti-static protective clothing and anti-static protective boots. Other protection: Smoking, eating and drinking water are prohibited at work. Maintain good hygiene practices.

## 9. physical properties

Appearance and character: White metal shell (containing colorless transparent liquid). Smell: slightly odor.

odour threshold: no data.

PH value: no data.

melting point/solidification point (C): no data available.

Boiling point, initial boiling point and boiling range ( ° C): No data.

flash point (closed cup , ° C): no data available.

evaporation rate: no data available.

Flammability (solid or gas): Not flammable.

explosion upper/lower limit [% (v/v)]: no information available.

vapor pressure (kPa): no data available.

vapor density (air =1): no data available.

relative density (water =1): no data available.

solubility (mg/L): no data available. octanol/water partition coefficient: no information.

spontaneous combustion temperature.C): No information available.

decomposition temperature (C): no data available.

Viscosity: No data available.

Other: No information available.

## 10. Stability and reactivity

Reactivity: Decomposition or other chemical reactions may occur in contact with incompatible substances.

Chemical stability: is stable under proper use and storage conditions.

Possibility of hazardous reactions: no information available.

Conditions to avoid contact: electrostatic discharge, heat, moisture, etc.

Ligands: strong oxides, strong acids, strong bases.

Hazardous decomposition products: Under normal storage and use conditions, no hazardous decomposition products will be produced.

## 11. Toxicological information

Acute toxicity

Components	LDM( ORAL)	L&( percutaneous)	LC <sub>50</sub> (inhalation ,4 h)
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# General Information Test

TJTest Technology Co., Ltd.

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All components of this	No information available	No information available	No information available
------------------------	--------------------------	--------------------------	--------------------------

## Carcinogenicity

Name of component	IARC	NTP
All components of this product	Wood inclusion	Wood inclusion

## Other information

Components		Sweat heavy eye damage/ stimulation	Skin sensitization	Respiratory sensitization	Reproductive toxicity	Specific Target Organ System Toxicity - Single Exposure	Specific Target Organ System Toxicity - Repeat	Inhalation hazards		Reproductive poisoning and poisoning
All components	No information	No information	No information	No information	No information	No information	No information	No information	No information	No information

## 12. Ecological information

### 12.1 Acute aquatic toxicity

Components	Fish stocks	crustacean	Algae/ Aquatic plants
All components of	No information available	No information available	No information available

### 12.2 Chronic aquatic toxicity

Components	Fish stocks	crustacean	Algae/ Aquatic plants
All components of this	No information available	No information available	No information available

### 12.3 Other information

Components	Persistence and degradability	Bioconcentration or bioaccumulation	Migration in soils	PBT and vPvB outcome evaluation
All components of this	No information	No information	No information	No information

## 13. Waste disposal

Waste chemicals: recycle as much as possible. If not recycled, use incineration for disposal. This product shall not be disposed of by means of discharge to the sewer.

Contaminated packaging: After the packaging is emptied there may still be residue hazards, should be away from heat and fire sources, if possible returned to the supplier for recycling.

Waste precautions: Please refer to the "Waste Disposal" section.

## 14. Transport information

Air transport may be carried out under non-restrictive cargo conditions in accordance with IATA DGR categories.

By sea according to the category of IMO IMDG Code, can be handled according to the conditions of non-restrictive goods.

UN Dangerous Goods Number (UN No.): This product is not classified as dangerous goods.

correct united nations shipping name: no requirement.

United Nations hazard classification: none

Packing Group: None



# General I iliş Test

TJTEST Technology Co.,Ltd.

T200316029A

Packing label: None

Marine pollutants (Yes/No): No

Packing method: Packing according to the method recommended by the manufacturer.

Transport considerations:

It is strictly forbidden to mix with acids, bases, oxidants, food and food additives. Vehicle exhaust pipes for the shipment of this item must be equipped with fire arresters and the use of spark-prone machinery and tools for handling is prohibited. Transportation should be protected against exposure, rain, high temperature.

# General İ liş Test

TJTEST Technology Co.,Ltd.

T200316029A

The tank (tank) vehicle used for transportation shall have a grounding chain, and the slot may be provided with a hole partition to reduce shock and generate static electricity.

It is strictly forbidden to mix with oxidant, acid, food and food additives. It is strictly forbidden to transport in bulk by wooden and cement ships. Transportation should be protected against exposure, rain, high temperature. Transport vehicles shall be equipped with corresponding varieties and quantities of fire fighting equipment and leakage emergency handling equipment. The packing container should be checked for completeness and sealing before transportation. Dangerous signs and announcements shall be posted on the means of transport according to the relevant transport requirements.

## 15. Regulatory information

### International Chemicals Directory

Components	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AICS
Silver ions	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
Pure water	Inclusion	Inclusion	Inclusion	Inclusion	Inclusion	Inclusion	Inclusion	Inclusion

[List of existing chemicals in EINECS] Europe [TSCA] the list of TSCA chemicals in the United States [list of domestic chemicals in Canada [IECSC] list of existing chemicals in China [list of chemicals available in New Zealand [list of chemicals and chemicals in the Philippines [list of chemicals and chemicals in the Philippines [KECL] list of existing chemicals in Korea [AICS] list of chemicals available in Australia]

## 16. Other information

### References:

- [1] International Programme on Chemical Safety: International Chemical Safety Card (ICSC), web site: <http://www.ilo.org>.
- [2] International Agency for Cancer Research, Web site: <http://www.iarc.fr>
- [3] OECD Global Chemicals Information Platform, web site: <http://www.echemportal.org>.
- [4] United States CAMEO Chemical Materials Database, Web site: <http://cameochemicals.noaa.gov>.
- [5] American Medical Library: Chemical Identification Database, Web site: <http://chem.sis.nlm.nih.gov>.
- [6] United States Environmental Protection Agency: Integrated Risk Information System, Web site: <http://cfpub.epa.gov>.
- [7] United States Department of Transportation: Emergency Response Guide, <http://www.phmsa.dot.gov>.
- [8] German GESTIS- Hazardous Substances Database, Web site: <http://gestis-en.itrust.de>.

### Other information:

#### 1. abbreviations

CAS – CAS No.	TSCA – time-weighted average PC-TWA – the
PC-STEL – short exposure to allowable concentrations	United States list of TSCA chemicals IARC–
DNEL– derived non-impact levels	International Agency for Cancer Research
RPE – respiratory protection equipment	PNEC – predicted invalid concentrations
LC50-50% lethal concentrations	LD50-50% lethal dose
NOEC – NOEC	EC50-50% effective concentration
PBT – persistence, bioaccumulation,	POW – octanol/water partition coefficient vPvB –
	persistence, bioaccumulation

# General I liş Test

TJTest Technology Co., Ltd.

T200316029A

CMR – carcinogenic, teratogenic and reproductive chemicals

IMDG– International Maritime

ICA0/IATA – ICAO/International Air Transport

Organization

Association

NFPA– American Fire Services Association  
and Development

OECD– Organization for Economic Cooperation

## 2. Disclaimer

As required by the eighth revised edition of the United Nations GHS system, the format of this security data sheet is derived from international authoritative databases and data submitted by enterprises, and other information is based on the knowledge currently available to the company. We try our best to ensure the correctness of all the information in it, but due to the diversity of information sources and the limitations of our knowledge, this document is for users' reference only. Users of security data sheets should judge the rationality of relevant information according to the purpose of use. We shall not be liable for any damage caused by the operation, storage, use or disposal of the product.

Sample picture



\*\*\*\*\*结束\*\*\*\*\*  
SDS 报告编制日期：2020/03/16（当年有效）



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# Confirmation of the conditions of carriage of goods

## Certification for Safe Transport of Chemical Goods

Non-restrictive goods

Sample name: Niger Antimicrobial Spray for Oxycon Silver Ion

Sample Name : Fuyangkang Silver Ion Antibacterial spray

Entrusting unit: Beijing Time Quantum Kang Technology Co. Ltd.

Production units: Wuxi Partner Daily Chemical Technology Co., Ltd.





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## 广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

# 分析检测报告

REPORT FOR ANALYSIS

报告编号

2020FM01684R01

Report No.

样品名称

富氧康牌银离子抗菌喷剂

Name of Sample

委托单位

北京时代量子康科技有限公司

Applicant

检测类型

Test Type

单位地址: 广州市先烈中路 100 号大院 66 号楼

Address: Building 66, No.100 Central Xian Lu Road, Guangzhou, China

邮政编码: 510070

Postcode:

电话号码: (020)87137666

Tel:

传真号码: (020)87137668

Fax:

网 址: www.gddcm.com

Website:







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## 广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

### 分析检测报告

REPORT FOR ANALYSIS



报告编号: 2020FM01684R01 校验码 (Verification Code): 20586143

样品名称 Name of Sample	富氧康牌银离子抗菌喷剂	检测类型 Test Type	委托检测
委托单位 Applicant	北京时代量子康科技有限公司	地址 Address	北京市怀柔区庙城镇庙城村临300号401室
样品来源 Sample Source	委托方送检	样品数量 Sample Quantity	4瓶
样品规格和批号 Spec and Lot No of Sample	300ml/瓶、HB20200210	样品状态和特性 State and Characteristic	液体
接样日期 Sample Received Date	2020-02-15	检测完成日期 Completion Date	2020-03-06
检测依据和方法 Test Standard and Method	GB 15979-2002 附录 B、附录 C3		
检测项目 Item Tested	细菌菌落总数、真菌菌落总数、大肠菌群、金黄色葡萄球菌、绿脓杆菌、溶血性链球菌、中和剂鉴定试验、杀菌性能		
检测结论 Test Conclusion	<p><b>1.微生物指标检测:</b> 该样品所检项目大肠菌群、绿脓杆菌、金黄色葡萄球菌、溶血性链球菌、细菌菌落总数、真菌菌落总数的检测结果符合 GB 15979-2002 《一次性使用卫生用品卫生标准》的要求。</p> <p><b>2.中和剂鉴定试验:</b> 含 3%吐温-80、0.5%硫代硫酸钠、0.5%L-组氨酸、0.5%蛋白胍、0.85%氯化钠、1.43%卵磷脂、0.1%半胱氨酸的 PBS 溶液,可有效中和“富氧康牌银离子抗菌喷剂”原液,且中和剂及中和产物对大肠杆菌和白色念珠菌无不良影响。</p> <p><b>3.杀菌性能测试:</b> 该样品原液,作用时间分别为 2min、5min、10min、20min,对大肠杆菌(ATCC 25922)、金黄色葡萄球菌(ATCC 6538)和白色念珠菌(ATCC 10231)的杀菌率&gt;99.99%,符合 GB 15979-2002 附录 C3 规定的标准值(杀菌率≥90%),对所测菌株有杀菌作用。</p> <p>签发日期: 2020-03-09 Date for Reporting (机构盖章 Official Seal)</p>		
备注 Remarks	生产厂家: 无锡市伙伴日化科技有限公司。(由委托方提供)		

制表:  
Editor

审核:  
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## 广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

### 分析检测结果

ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2020FM01684R01

样品名称	富氧康牌银离子抗菌喷剂	接样日期	2020-02-15
检验项目	细菌菌落总数、真菌菌落总数、 大肠菌群、金黄色葡萄球菌、 绿脓杆菌、溶血性链球菌	检验完成日期	2020-02-24

#### 一. 器材:

1. 试验样品: 富氧康牌银离子抗菌喷剂。
2. 试剂: 乳糖胆盐发酵管、SCDLP 葡萄糖肉汤。
3. 平板: 十六烷三甲基溴化铵琼脂平板、血琼脂平板。
4. 培养基: 营养琼脂、沙氏琼脂。

#### 二. 方法:

1. 检测依据: GB 15979-2002《一次性使用卫生用品卫生标准》附录 B 产品微生物检测方法。
2. 检测条件: 环境温度 23.2℃, 相对湿度 53%。

#### 三. 结果:

检测指标	标准值	实测值
细菌菌落总数 (cfu/mL)	≤200	<1
真菌菌落总数 (cfu/mL)	≤100	<1
大肠菌群	不得检出	未检出
金黄色葡萄球菌	不得检出	未检出
绿脓杆菌	不得检出	未检出
溶血性链球菌	不得检出	未检出

注: 阴性对照均无菌生长。

#### 四. 结论:

该样品所检项目大肠菌群、绿脓杆菌、金黄色葡萄球菌、溶血性链球菌、细菌菌落总数、真菌菌落总数的检测结果符合GB 15979-2002《一次性使用卫生用品卫生标准》的要求。

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### 分析检测结果

ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2020FM01684R01

样品名称	富氧康牌银离子抗菌喷剂	接样日期	2020-02-15
检验项目	中和剂鉴定试验、杀菌性能	检验完成日期	2020-03-06

#### 一. 器材:

1. 试验菌株: 大肠杆菌 (*Escherichia coli*) (ATCC 25922)、金黄色葡萄球菌 (*Staphylococcus aureus*) (ATCC 6538) 和白色念珠菌 (*Candida albicans*) (ATCC 10231) 以上菌株代数为第 5 代, 菌株来源: 广东省微生物菌种保藏中心。
2. 试验样品: 富氧康牌银离子抗菌喷剂。

#### 二. 方法:

1. 菌悬液的制备: 依据 GB 15979-2002 附录 C 产品杀菌性能、中和剂鉴定试验测试方法, 选取含菌量为  $1 \times 10^4$  cfu/片  $\sim 9 \times 10^4$  cfu/片的菌悬液进行试验。
2. 杀菌性能: 依据 GB 15979-2002 附录 C3 进行杀菌性能试验, 用该样品原液, 作用时间分别为 2min、5min、10min、20min, 试验重复 3 次。
3. 中和剂: 含 3%吐温-80、0.5%硫代硫酸钠、0.5%L-组氨酸、0.5%蛋白胨、0.85%氯化钠、1.43%卵磷脂、0.1%半胱氨酸的 PBS 溶液。
4. 检验条件: 温度:  $23.0^\circ\text{C} \sim 23.4^\circ\text{C}$ , 湿度: 52%~54%。

#### 三. 结果:

##### 1. 中和剂鉴定试验:

作用浓度 及时间	测试菌株	组别	每次试验各组生长菌落数(cfu/片)		
			1	2	3
原液 30 秒	大肠杆菌 ( <i>Escherichia coli</i> ) ATCC 25922	1 染菌样片+5mLPBS	<5	<5	<5
		2 染菌样片+5mL 中和剂	60	90	80
		3 染菌对照片+5mL 中和剂	$3.9 \times 10^4$	$4.0 \times 10^4$	$3.7 \times 10^4$
		4 样片+5mL 中和剂+染菌对照片	$3.2 \times 10^4$	$3.6 \times 10^4$	$3.2 \times 10^4$
		5 染菌对照片+5mLPBS	$3.6 \times 10^4$	$4.2 \times 10^4$	$3.6 \times 10^4$
		6 同批次 PBS	无菌生长	无菌生长	无菌生长
		7 同批次中和剂	无菌生长	无菌生长	无菌生长
		8 同批次培养基	无菌生长	无菌生长	无菌生长

注: 1.3 次重复试验第 3、4、5 组的组间误差率分别为 6.48%, 5.98%, 5.71%。

2. 实验结论: 试验结果表明所测中和剂判为合格。

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## 广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

### 分析检测结果

ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2020FM01684R01

样品名称	富氧康牌银离子抗菌喷剂	接样日期	2020-02-15
检验项目	中和剂鉴定试验、杀菌性能	检验完成日期	2020-03-06

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作用浓度 及时间	测试菌株	组别	每次试验各组生长菌落数(cfu/片)		
			1	2	3
原液 30 秒	白色念珠菌 ( <i>Candida albicans</i> ) ATCC 10231	1 染菌样片+5mLPBS	<5	<5	<5
		2 染菌样片+5mL 中和剂	85	60	50
		3 染菌对照片+5mL 中和剂	$2.8 \times 10^4$	$3.0 \times 10^4$	$3.0 \times 10^4$
		4 样片+5mL 中和剂+染菌对照片	$2.2 \times 10^4$	$2.4 \times 10^4$	$2.4 \times 10^4$
		5 染菌对照片+5mLPBS	$2.9 \times 10^4$	$2.6 \times 10^4$	$3.0 \times 10^4$
		6 同批次 PBS	无菌生长	无菌生长	无菌生长
		7 同批次中和剂	无菌生长	无菌生长	无菌生长
		8 同批次培养基	无菌生长	无菌生长	无菌生长

注: 1.3 次重复试验第 3、4、5 组的组间误差率分别为 11.54%, 8.64%, 9.52%。

2. 实验结论: 试验结果表明所测中和剂判为合格。

#### 2. 杀菌性能:

(1) 样品作用浓度及时间: 该样品原液, 作用时间 2min

测试微生物	序号	试验组存活菌 (cfu/片)	对照组存活菌 (cfu/片)	杀菌率 (%)
大肠杆菌 ( <i>Escherichia coli</i> ) ATCC 25922	1	<5	$5.9 \times 10^4$	>99.99
	2	<5	$6.2 \times 10^4$	>99.99
	3	<5	$6.6 \times 10^4$	>99.99
	平均值		$6.2 \times 10^4$	>99.99
金黄色葡萄球菌 ( <i>Staphylococcus aureus</i> ) ATCC 6538	1	<5	$7.5 \times 10^4$	>99.99
	2	<5	$6.9 \times 10^4$	>99.99
	3	<5	$6.4 \times 10^4$	>99.99
	平均值		$6.9 \times 10^4$	>99.99
白色念珠菌 ( <i>Candida albicans</i> ) ATCC 10231	1	<5	$6.0 \times 10^4$	>99.99
	2	<5	$5.6 \times 10^4$	>99.99
	3	<5	$7.0 \times 10^4$	>99.99
	平均值		$6.2 \times 10^4$	>99.99

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## 广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

### 分析检测结果

ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2020FM01684R01

样品名称	富氧康牌银离子抗菌喷剂	接样日期	2020-02-15
检验项目	中和剂鉴定试验、杀菌性能	检验完成日期	2020-03-06

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(2) 样品作用浓度及时间: 该样品原液, 作用时间 5min

测试微生物	序号	试验组存活菌 (cfu/片)	对照组存活菌 (cfu/片)	杀菌率 (%)
大肠杆菌 ( <i>Escherichia coli</i> ) ATCC 25922	1	<5	$5.3 \times 10^4$	>99.99
	2	<5	$6.5 \times 10^4$	>99.99
	3	<5	$6.4 \times 10^4$	>99.99
	平均值		$6.1 \times 10^4$	>99.99
金黄色葡萄球菌 ( <i>Staphylococcus aureus</i> ) ATCC 6538	1	<5	$7.0 \times 10^4$	>99.99
	2	<5	$6.3 \times 10^4$	>99.99
	3	<5	$6.1 \times 10^4$	>99.99
	平均值		$6.5 \times 10^4$	>99.99
白色念珠菌 ( <i>Candida albicans</i> ) ATCC 10231	1	<5	$6.5 \times 10^4$	>99.99
	2	<5	$6.0 \times 10^4$	>99.99
	3	<5	$7.2 \times 10^4$	>99.99
	平均值		$6.6 \times 10^4$	>99.99

(3) 样品作用浓度及时间: 该样品原液, 作用时间 10min

测试微生物	序号	试验组存活菌 (cfu/片)	对照组存活菌 (cfu/片)	杀菌率 (%)
大肠杆菌 ( <i>Escherichia coli</i> ) ATCC 25922	1	<5	$6.0 \times 10^4$	>99.99
	2	<5	$6.8 \times 10^4$	>99.99
	3	<5	$6.2 \times 10^4$	>99.99
	平均值		$6.3 \times 10^4$	>99.99
金黄色葡萄球菌 ( <i>Staphylococcus aureus</i> ) ATCC 6538	1	<5	$6.8 \times 10^4$	>99.99
	2	<5	$6.4 \times 10^4$	>99.99
	3	<5	$5.8 \times 10^4$	>99.99
	平均值		$6.3 \times 10^4$	>99.99
白色念珠菌 ( <i>Candida albicans</i> ) ATCC 10231	1	<5	$6.0 \times 10^4$	>99.99
	2	<5	$5.4 \times 10^4$	>99.99
	3	<5	$6.4 \times 10^4$	>99.99
	平均值		$5.9 \times 10^4$	>99.99

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### 分析检测结果

ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2020FM01684R01

样品名称	富氧康牌银离子抗菌喷剂	接样日期	2020-02-15
检验项目	中和剂鉴定试验、杀菌性能	检验完成日期	2020-03-06

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(4) 样品作用浓度及时间: 该样品原液, 作用时间 20min

测 试 微 生 物	序号	试验组存活菌 (cfu/片)	对照组存活菌 (cfu/片)	杀菌率 (%)
大肠杆菌 ( <i>Escherichia coli</i> ) ATCC 25922	1	<5	$5.5 \times 10^4$	>99.99
	2	<5	$6.3 \times 10^4$	>99.99
	3	<5	$6.8 \times 10^4$	>99.99
	平均值		$6.2 \times 10^4$	>99.99
金黄色葡萄球菌 ( <i>Staphylococcus aureus</i> ) ATCC 6538	1	<5	$6.6 \times 10^4$	>99.99
	2	<5	$5.7 \times 10^4$	>99.99
	3	<5	$6.2 \times 10^4$	>99.99
	平均值		$6.2 \times 10^4$	>99.99
白色念珠菌 ( <i>Candida albicans</i> ) ATCC 10231	1	<5	$5.7 \times 10^4$	>99.99
	2	<5	$6.1 \times 10^4$	>99.99
	3	<5	$6.8 \times 10^4$	>99.99
	平均值		$6.2 \times 10^4$	>99.99

#### 四. 结论

**1.中和剂鉴定试验:** 含 3%吐温-80、0.5%硫代硫酸钠、0.5%L-组氨酸、0.5%蛋白胨、0.85%氯化钠、1.43%卵磷脂、0.1%半胱氨酸的 PBS 溶液,可有效中和“富氧康牌银离子抗菌喷剂”原液,且中和剂及中和产物对大肠杆菌和白色念珠菌无不良影响。

**2.杀菌性能测试:** 该样品原液,作用时间分别为 2min、5min、10min、20min,对大肠杆菌(ATCC 25922)、金黄色葡萄球菌(ATCC 6538)和白色念珠菌(ATCC 10231)的杀菌率>99.99%,符合 GB 15979-2002 附录 C3 规定的标准值(杀菌率≥90%),对所测菌株有杀菌作用。

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# 安全数据单

## (SDS)

最初编制日期: 2020/03/16

修订日期: 2020/03/16

版本: 20200316

依据联合国 GHS 制度第八修订版

产品名称: 富氧康银离子抗菌喷剂

型号/规格: /

客户名称: 北京时代量子康科技有限公司

编写: 通剑检测技术(上海)有限公司





## 1、化学品及企业标识

### 1.1 产品标识

产品名称：富氧康银离子抗菌喷剂

型号/规格：/

### 1.2 产品推荐和限制用途

产品的推荐用途：请咨询生产商。

产品的限制用途：请咨询生产商。

### 1.3 安全数据单提供者信息

企业名称：北京时代量子康科技有限公司

企业地址：/

联系电话：+86 (0) 18618280838

传 真：/

邮 编：/

电子邮箱：18618280838@163.com

### 1.4 企业应急电话：+86 (0) 18618280838

## 2、危险性概述

2.1 GHS 危险性类别：本产品不属于危险品, 无危害分类。

### 2.2 GHS 标签要素

象形图：无。

信号词：无。

2.3 危险性说明：无资料。

### 2.4 防范说明

#### 2.4.1 预防措施

无资料。

#### 2.4.2 事故响应

无资料。

#### 2.4.3 安全储存

无资料。

#### 2.4.4 废弃处置

无资料。

### 2.5 危害描述

#### 2.5.1 物理和化学危害

本品正常情况下使用无危害。

#### 2.5.2 健康危害

无资料。

#### 2.5.3 环境危害

请参阅 SDS 第十二部分。

## 3、成分 / 组成信息

物质 ☐ 配制品 ☒

化学名称	CAS No.	EC No.	成分比（重量%）
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银离子	——	——	0.002-0.003
纯净水	7732-18-5	231-791-2	99

## 4、急救措施

### 4.1 急救措施描述

**一般性建议：**急救措施通常是需要的，请将本 SDS 出示给到达现场的医生。

**皮肤接触：**用大量水清洗，脱去被污染的衣服和鞋。

**眼睛接触：**用流动水或生理盐水清洗，必要时就医。

**吸入：**移至空气新鲜处，保持呼吸道畅通，如有不适，请就医。

**摄入：**清理口腔，催吐，就医。

**急救人员的防护：**确保医护人员了解产品的危害特性，并采取自身防护措施，以保护自己和防止污染传播。

### 4.2 紧急医疗处理和特殊处理的说明

- 1、根据出现的症状进行针对性处理。
- 2、注意症状可能会出现延迟。

## 5、消防措施

### 5.1 灭火介质

- 1、合适的灭火介质：雾状水、抗溶性泡沫、干粉、二氧化碳、砂土。
- 2、不合适的灭火介质：避免用太强烈的水汽灭火，因为它可能会使火苗蔓延分散。

### 5.2 源于此物质或混合物的特别危害

- 1、无资料。

### 5.3 对消防人员的建议

- 1、灭火时，应佩戴呼吸面具(符合 MSHA/NIOSH 要求的或相当的)并穿上全身防护服。
- 2、在安全距离处、有充足防护的情况下灭火。
- 3、防止消防水污染地表和地下水系统。

## 6、泄漏应急处理

### 6.1 作业人员防护措施, 防护设备和紧急处理程序

- 1、建议应急人员戴正压自给式呼吸器，穿防毒、防静电服，戴化学防渗透手套。
- 2、保证充分的通风。清除所有点火源。
- 3、迅速将人员撤离到安全区域，远离泄漏区域并处于上风方向。
- 4、使用个人防护装备。避免吸入蒸气、烟雾、气体或粉尘。

### 6.2 环境保护措施

- 1、在确保安全的情况下，采取措施防止进一步的泄漏或溢出。
- 2、避免排放到周围环境中。

### 6.3 泄漏化学品的收容、清除方法及所使用的处置材料

- 1、附着物或收集物应存放在合适的密闭容器中，并根据当地相关法律法规废弃处置。
- 2、清除所有点火源，并采用防火花工具和防爆设备。

## 7、操作处置和储存

### 7.1 操作注意事项

- 1、密闭操作，全面通风。

- 2、操作人员必须经过专门培训,严格遵守操作规程。
- 3、建议操作人员佩戴自吸过滤式防尘口罩,戴化学安全防护眼镜。
- 4、远离火种、热源,工作场所严禁吸烟。
- 5、使用防爆型的通风系统和设备。
- 6、避免与氧化剂、还原剂、卤素接触。
- 7、配备相应品种和数量的消防器材。

## 7.2 储存注意事项

- 1、储存于阴凉、通风的库房。
- 2、远离火种、热源。
- 3、应与氧化剂、还原剂、卤素等分开存放,切忌混储。
- 4、采用防爆型照明、通风设施。
- 5、禁止使用易产生火花的机械设备和工具。
- 6、储区应备有泄漏应急处理设备和合适的收容材料。

## 8、接触控制和个体防护

### 8.1 控制参数

#### 8.1.1 职业接触限值

##### 国际职业接触限值

组分	国家/地区	职业接触限值 (8h)		职业接触限值 (短时间)	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
本产品 所有组分	美国-OSHA	未规定	未规定	未规定	未规定
	韩国	未规定	未规定	未规定	未规定
	爱尔兰	未规定	未规定	未规定	未规定
	德国 (AGS)	未规定	未规定	未规定	未规定
	丹麦	未规定	未规定	未规定	未规定
	澳大利亚	未规定	未规定	未规定	未规定

#### 8.1.2 生物限值

生物限值: 无资料

#### 8.1.3 监测方法

- 1、EN 14042 工作场所空气 用于评估暴露于化学或生物试剂的程序指南。
- 2、GBZ/T 160.1~GBZ/T 160.81-2004 工作场所空气有毒物质测定 (系列标准)。

### 8.2 工程控制

- 1、保持充分的通风,特别在封闭区内。
- 2、确保在工作场所附近有洗眼和淋浴设施。
- 3、使用防爆电器、通风、照明等设备。
- 4、设置应急撤离通道和必要的泄险区。

### 8.3 个人防护装备

总要求:



**眼睛防护:** 佩戴化学护目镜 (符合欧盟 EN 166 或美国 NIOSH 标准)。



**手部防护：**戴化学防护手套（例如丁基橡胶手套）。建议选择经过欧盟 EN 374、美国 US F739 或 AS/NZS 2161.1 标准测试的防护手套。

**呼吸系统防护：**如果蒸气浓度超过职业接触限值或发生刺激等症状时, 请使用全面罩式多功能防毒面具（US）或 AXBEK 型（EN 14387）防毒面具筒。

**皮肤和身体防护：**穿阻燃防静电防护服和抗静电的防护靴。

**其它防护：**工作现场严禁吸烟、进食和饮水。保持良好的卫生习惯。

## 9、理化特性

**外观与性状：**白色金属外壳（内含无色透明液体）。

**气味：**稍有气味。

**气味临界值：**无资料。

**PH 值：**无资料。

**熔点/凝固点(℃)：**无资料。

**沸点、初沸点和沸程(℃)：**无资料。

**闪点(闭杯, ℃)：**无资料。

**蒸发速率：**无资料。

**易燃性(固体或气体)：**不易燃。

**爆炸上限/下限[% (v/v)]：**无资料。

**蒸气压(kPa)：**无资料。

**蒸气密度(空气=1)：**无资料。

**相对密度(水=1)：**无资料。

**溶解性(mg/L)：**无资料。

**辛醇 /水分配系数：**无资料。

**自燃温度(℃)：**无资料。

**分解温度(℃)：**无资料。

**黏度：**无资料。

**其他：**无资料。

## 10、稳定性和反应性

**反应性：**与不相容物质接触可发生分解或其它化学反应。

**化学稳定性：**在正确的使用和存储条件下是稳定的。

**危险反应的可能性：**无资料。

**避免接触的条件：**静电放电、热、潮湿等。

**禁配物：**强氧化物, 强酸, 强碱。

**危险的分解产物：**在正常的储存和使用条件下, 不会产生危险的分解产物。

## 11、毒理学信息

### 急性毒性

组分	LD <sub>50</sub> (经口)	LD <sub>50</sub> (经皮)	LC <sub>50</sub> (吸入, 4h)
本品所有组分	无资料	无资料	无资料

### 致癌性

组分名称	IARC	NTP
本品所有组分	未列入	未列入

## 其他信息

组分	皮肤 腐蚀 刺激	严重 眼损 伤/刺 激	皮肤 致敏	呼吸 致敏	生殖 毒性	特 异 性 靶 器 官 系 统 毒 性- 单 次 接 触	特 异 性 靶 器 官 系 统 毒 性- 反 复 接 触	吸入 危害	生殖 细胞 致突 变性	生殖 毒性 附加 危害
本品所有组分	无资料	无资料	无资料	无资料	无资料	无资料	无资料	无资料	无资料	无资料

## 12、生态学信息

### 12.1 急性水生毒性

组分	鱼类	甲壳纲动物	藻类/水生植物
本品所有组分	无资料	无资料	无资料

### 12.2 慢性水生毒性

组分	鱼类	甲壳纲动物	藻类/水生植物
本品所有组分	无资料	无资料	无资料

### 12.3 其他信息

组分	持久性和降解性	生物富集或生物 积累性	土壤中的迁移性	PBT 和 vPvB 的结 果评价
本品所有组分	无资料	无资料	无资料	无资料

## 13、废弃处置

**废弃化学品：**尽可能回收利用。如果不能回收利用，采用焚烧方法进行处置。不得采用排放到下水道的方式废弃处置本品。

**污染包装物：**包装物清空后仍可能存在残留物危害，应远离热和火源，如有可能返还给供应商循环使用。

**废弃注意事项：**请参阅“废弃物处理”部分。

## 14、运输信息

空运按照 IATA DGR 办理的类型，可按非限制性货物条件办理。

海运按照 IMO IMDG Code 办理的类型，可按非限制性货物条件办理。

联合国危险货物编号（UN No.）：本产品不属于危险品。

联合国正确运输名称：无要求。

联合国危险性分类：无

包装类别：无

包装标签：无

海洋污染物（是/否）：否

包装方法：按照生产商推荐的方法进行包装。

运输注意事项：

严禁与酸类、碱类、氧化剂、食品及食品添加剂混运。装运该物品的车辆排气管必须配备阻火装置，禁止使用易产生火花的机械设备和工具装卸。运输途中应防曝晒、雨淋，防高温。

运输时所用的槽（罐）车应有接地链，槽内可设孔隔板以减少震荡产生静电。

严禁与氧化剂、酸类、食品及食品添加剂等混装混运。严禁用木船、水泥船散装运输。运输途中应防曝晒、雨淋，防高温。运输时运输车辆应配备相应品种和数量的消防器材及泄漏应急处理设备。运输前应先检查包装容器是否完整、密封。运输工具上应根据相关运输要求张贴危险标志、公告。

## 15、法规信息

### 国际化学品名录

组分	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AICS
银离子	N. A	N. A	N. A	N. A	N. A	N. A	N. A	N. A
纯净水	列入	列入	列入	列入	列入	列入	列入	列入

【EINECS】 欧洲现有化学物质名录

【TSCA】 美国 TSCA 化学物质名录

【DSL】 加拿大国内化学物质名录

【IECSC】 中国现有化学物质名录

【NZIoC】 新西兰现有暂用的化学物质名录

【PICCS】 菲律宾化学品和化学物质名录

【KECL】 韩国现有化学物质名录

【AICS】 澳大利亚现有化学品物质名录

## 16、其他信息

### 参考文献：

【1】国际化学品安全规划署：国际化学品安全卡（ICSC），网址：<http://www.ilo.org>

【2】国际癌症研究机构，网址：<http://www.iarc.fr>

【3】OECD 全球化学品信息平台，网址：<http://www.echemportal.org>

【4】美国 CAMEO 化学物质数据库，网址：<http://cameochemicals.noaa.gov>

【5】美国医学图书馆：化学品标识数据库，网址：<http://chem.sis.nlm.nih.gov>

【6】美国环境保护署：综合危险性信息系统，网址：<http://cfpub.epa.gov>

【7】美国交通部：应急响应指南，网址：<http://www.phmsa.dot.gov>

【8】德国 GESTIS-有害物质数据库，网址：<http://gestis-en.itrust.de>

### 其他信息：

#### 1、缩略语

CAS - 化学文摘号

PC-STEL - 短时间接触容许浓度

DNEL - 衍生的无影响水平

RPE - 呼吸防护设备

LC50 - 50%致死浓度

NOEC - 无观测效应浓度

PBT - 持久性，生物累积性，毒性

BCF - 生物浓度因子 (BCF)

CMR - 致癌、致畸和有生殖毒性的化学物质

IMDG - 国际海事组织

UN - 联合国

TSCA - 美国 TSCA 化学物质名录

PC-TWA - 时间加权平均值

IARC - 国际癌症研究机构

PNEC - 预测的无效应浓度

LD50 - 50%致死剂量

EC50 - 50%有效浓度

POW - 辛醇/水分配系数

vPvB - 持久性，生物累积性

ICAO/IATA - 国际民航组织/国际航空运输协会

ACGIH - 美国工业卫生会议



NFPA - 美国消防协会

OECD - 经济合作与发展组织

## 2、免责声明

本安全数据单格式符合联合国 GHS 制度第八修订版要求,数据来源于国际权威数据库和企业提交的数据,其它的信息是基于公司目前所掌握的知识。我们尽量保证其中所有信息的正确性,但由于信息来源的多样性以及本公司所掌握知识的局限性,本文件仅供使用者参考。安全数据单的使用者应根据使用目的,对相关信息的合理性做出判断。我们对该产品操作、存储、使用或处置等环节产生的任何损害,不承担任何责任。

### 样品图片



\*\*\*\*\*结束\*\*\*\*\*  
SDS 报告编制日期: 2020/03/16 (当年有效)



NO.2020035125

# 货物运输条件鉴定书

Certification  
for Safe Transport of Chemical Goods

## 非限制性货物

样品名称：富氧康银离子抗菌喷剂

Sample Name: Fuyangkang Silver Ion Antibacterial spray

委托单位：北京时代量子康科技有限公司

生产单位：无锡市伙伴日化科技有限公司



上海化工院检测有限公司

Shanghai Research Institute of Chemical Industry Testing Co., Ltd

