TEST REPORT

Report №.: **2020001949 a E**

Customer: Yurui (Shanghai) Chemical Co., Ltd

Contact Information: Floor 5, Building H2, No.3188 Xiupu Rd,Pudong, Shanghai, China

Test Type: ☑**Submitted by Customer** ☐**Sampling by NACC**

Date of sample received: 2020-3-18

Authorized signatory: 林晓珊 **Date for Reporting:** 2020-4-8

Guangdong Institute of Analysis(China National Analytical Center, Guangzhou)

Remarks: The sample(s) submitted and related information are provided and confirmed by client, and NACC is not responsible for verifying its integrity and authenticity.

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中广测 NACC

CMA 180000300714 ilac-MRA CNAS 中国认可 国际互认 检测 TESTING CNAS L1360

TEST REPORT

Sample Name: Nano Silver Wash Free Antibacterial Spray UIV Customer brand Report №.: 2020001949 a E

Sample Lot №./Batch №.: 20200228S Testing Period: 18-Mar To 8-Apr

Sample Appearance: Liquid Sample Quantity: 2000mL

Other Information: Product composition : Nano silver, Deionized water ; Health license NO. : ZWXZZ (2020) No. 0089

Test Results

Item	Result	Unit	Judgement basis	Standard requirements	Judgement	Method
Silver (Ag)	50.3	mg/kg	——	——	——	<Safety and Technical Standards for Cosmetics> (2015 edition), Chapter 4, Physical and chemical test method/1.6
Lead (Pb)	Not detected (Test limit:0.5)	mg/kg	<Safety and Technical Standards for Cosmetics> (2015 edition)	≤10	Qualified	
Arsenic (As)	Not detected (Test limit:0.1)	mg/kg		≤2	Qualified	
Mercury (Hg)	Not detected (Test limit:0.1)	mg/kg		≤1	Qualified	
Stability test(54℃, 14days) (Decrease rate of silver content)	1.4	%	<Technical Standard For disinfection> (Ministry of Health,2002) 2.2.3	≤10	Qualified	<Safety and Technical Standards for Cosmetics> (2015 edition), Chapter 4, Physical and chemical test method/1.6 <Technical Standard For disinfection> (Ministry of Health,2002) 2.2.3
pH value	10.21	——	——	——	——	<Technical Standard For disinfection> (Ministry of Health,2002), 2.2.1.4 method of pH meter
Total bacterial colonies	<20	CFU/mL	GB 15979-2002	≤200	Qualified	GB 15979-2002 Appendix B
Total number of fungal colonies	<20	CFU/mL		≤100	Qualified	
Coliform group	Not detected	——		Negative	Qualified	
Staphylococcus aureus	Not detected	——		Negative	Qualified	
Pseudomonas aeruginosa	Not detected	——		Negative	Qualified	
Hemolytic streptococcus	Not detected	——		Negative	Qualified	
Note	/					

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Test Results

Item	Test strains	Action time	NO.	Test treatment group	Number of viable colonies in each test group (CFU/mL)			Conclusion	Method
					Test 1	Test 2	Test 3		
Neutralizer qualification test	Escherichia coli ATCC 8739	0.5min	1	Disinfectant + Bacteria liquid	<10	<10	<10	The error rates of the third, fourth and fifth groups were 4.94%, 3.01% and 5.17%, respectively. The sixth group was sterile growth. The test results showed that the neutralizer was qualified.	<Technical Standard For disinfection> (Ministry of Health, 2002), 2.1.1.5
			2	(Disinfectant+Bacteria liquid) + Neutralizer	20	35	35		
		10min	3	Neutralizer + Bacteria liquid	2.55×10^7	2.67×10^7	2.38×10^7		
			4	(Disinfectant + Neutralizer) + Bacteria liquid	2.31×10^7	2.54×10^7	2.14×10^7		
			5	Diluent + Bacteria liquid	2.63×10^7	2.77×10^7	2.44×10^7		
			6	Diluent + Neutralizer + Culture medium	0	0	0		
	Candida albicans ATCC 10231	0.5min	1	Disinfectant + Bacteria liquid	<10	<10	<10	The error rates of the third, fourth and fifth groups were 7.88%, 7.75% and 6.18% respectively. The sixth group was sterile growth. The test results showed that the neutralizer was qualified.	
			2	(Disinfectant+Bacteria liquid) + Neutralizer	40	60	45		
		10min	3	Neutralizer + Bacteria liquid	1.45×10^7	1.33×10^7	1.60×10^7		
			4	(Disinfectant + Neutralizer) + Bacteria liquid	1.23×10^7	1.14×10^7	1.42×10^7		
			5	Diluent + Bacteria liquid	1.51×10^7	1.40×10^7	1.67×10^7		
			6	Diluent + Neutralizer + Culture medium	0	0	0		

Item	Test strains	Action time	NO.	Result				<Technical Standard For disinfection> (Ministry of Health, 2002) Standard requirements	Judgement	Method
				Average number of bacteria in control sample group (CFU/mL)	Average number of bacteria in the sample group (CFU/mL)	Killing rate (%)	Killing log value			
Bactericidal property	Escherichia coli ATCC 8739	0.5min	1	2.57×10^7	<10	>99.99	>6.40	Escherichia coli killing log value ≥ 5.00	Qualified	<Technical Standard For disinfection> (Ministry of Health, 2002), 2.1.1.7
			2	2.50×10^7	<10	>99.99	>6.39			
			3	2.65×10^7	<10	>99.99	>6.42			
			Average value	2.57×10^7	<10	>99.99	>6.40			

Note	1.Neutralizer is 3% TWEEN 80 solution. 2.Experiment with the sample stock solution.

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Other Information: Product composition : Nano silver, Deionized water ; Health license NO. : ZWXZZ (2020) No. 0089

Test Results

Item	Test strains	Action time	NO.	Result: Average number of bacteria in control sample group (CFU/mL)	Result: Average number of bacteria in the sample group (CFU/mL)	Result: Killing rate (%)	Result: Killing log value	<Technical Standard For disinfection> (Ministry of Health, 2002) Standard requirements	Judgement	Method
Bactericidal property	Escherichia coli ATCC 8739	1min	1	2.43×10^7	<10	>99.99	>6.38	Escherichia coli killing log value≥5.00	Qualified	<Technical Standard For disinfection> (Ministry of Health, 2002), 2.1.1.7
			2	2.49×10^7	<10	>99.99	>6.39			
			3	2.56×10^7	<10	>99.99	>6.40			
			Average value	2.49×10^7	<10	>99.99	>6.39			
		1.5min	1	2.28×10^7	<10	>99.99	>6.35			
			2	2.48×10^7	<10	>99.99	>6.39			
			3	2.41×10^7	<10	>99.99	>6.38			
			Average value	2.39×10^7	<10	>99.99	>6.37			
	Staphylococcus aureus ATCC 6538	0.5min	1	1.88×10^7	<10	>99.99	>6.27	Staphylococcus aureus killing log value≥5.00	Qualified	
			2	1.99×10^7	<10	>99.99	>6.29			
			3	2.05×10^7	<10	>99.99	>6.31			
			Average value	1.97×10^7	<10	>99.99	>6.29			
		1min	1	1.78×10^7	<10	>99.99	>6.25			
			2	1.83×10^7	<10	>99.99	>6.26			
			3	1.91×10^7	<10	>99.99	>6.28			
			Average value	1.84×10^7	<10	>99.99	>6.26			
		1.5min	1	1.74×10^7	<10	>99.99	>6.24			
			2	1.85×10^7	<10	>99.99	>6.26			
			3	1.69×10^7	<10	>99.99	>6.22			
			Average value	1.76×10^7	<10	>99.99	>6.24			
	Candida albicans ATCC 10231	0.5min	1	1.70×10^7	<10	>99.99	>6.23	Candida albicans killing log value≥5.00	Qualified	<Technical Standard For disinfection> (Ministry of Health, 2002), 2.1.1.9
			2	1.78×10^7	<10	>99.99	>6.25			
			3	1.85×10^7	<10	>99.99	>6.26			
			Average value	1.78×10^7	<10	>99.99	>6.25			
Note	Experiment with the sample stock solution.									

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Item	Test strains	Action time	NO.	Result				<Technical Standard For disinfection> (Ministry of Health, 2002) Standard requirements	Judgement	Method
				Average number of bacteria in control sample group (CFU/mL)	Average number of bacteria in the sample group (CFU/mL)	Killing rate (%)	Killing log value			
Bactericidal property	Candida albicans ATCC 10231	1min	1	1.56×10^7	<10	>99.99	>6.19	Candida albicans killing log value≥5.00	Qualified	<Technical Standard For disinfection> (Ministry of Health, 2002), 2.1.1.9
			2	1.64×10^7	<10	>99.99	>6.21			
			3	1.72×10^7	<10	>99.99	>6.23			
			Average value	1.64×10^7	<10	>99.99	>6.21			
		1.5min	1	1.66×10^7	<10	>99.99	>6.22			
			2	1.53×10^7	<10	>99.99	>6.18			
			3	1.56×10^7	<10	>99.99	>6.19			
			Average value	1.58×10^7	<10	>99.99	>6.19			

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Note	Experiment with the sample stock solution.

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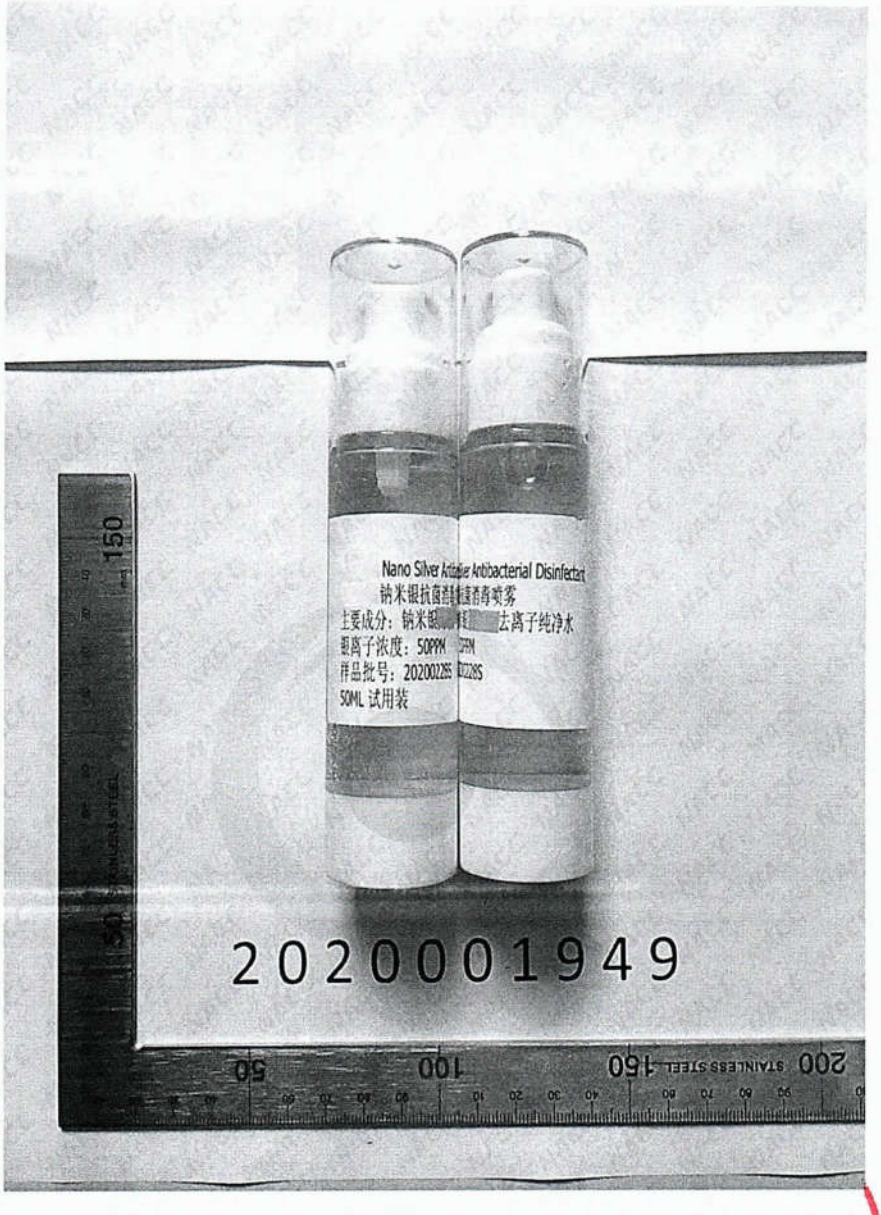
Nano Silver
Antibacterial Disinfectant
纳米银抗菌
主要成分：纳米银
去离子纯净水
银离子浓度：50PPM
样品批号：
50ML 试用装
2020001949