



中国认可  
国际互认  
检测  
TESTING  
CNAS L0823



202019005395

Test No.: XJ20206111

GUANGZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Dec. 22, 2020

Date Analyzed: Jan. 13, 2021

Name of Sample	SANITRU	Test Type	Commissioned
Applicant	Idealliving LLC	Sample Source	Delivery
Manufacturer	Idealliving LLC	Type and Specification	ST100
State of Sample	Machine + Granules (salt without iodine)	Batch Number	---
Packing of Sample	Box	Date of Production	---
Quantity of Sample	One set	Brand	SANITRU
Standard and Methods	Technical Standard For disinfection(2002) 2.1.1.5 Neutralizer Identification Test Technical Standard For disinfection(2002) 2.1.1.7 Quantitative Bacterial Killing Test		
Items of Analysis	1. Neutralizer Identification Test ( <i>Staphylococcus aureus</i> ATCC 6538) 2. Killing Test( <i>Staphylococcus aureus</i> ATCC 6538, <i>Pseudomonas aeruginosa</i> ATCC 15442)		
Remarks	---		

\*\*\*To be continued\*\*\*





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Test Results

1. Neutralizer Identification Test Results

1.1 Neutralizer Identification Test Results of (*Staphylococcus aureus*)

Neutralizer (1% Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>、1% Soybean Lecithin、3%Tween80 of PBS Solution) during 3 repeat tests: original solution produced by the machine contact for 0.5min, Inter-group error rate of 3<sup>rd</sup>、4<sup>th</sup> and 5<sup>th</sup> are 3.38%、3.62% and 3.75% separately, 1:5 dilute solution produced by the machine contact for 0.5min, Inter-group error rate of 3<sup>rd</sup>、4<sup>th</sup> and 5<sup>th</sup> are 4.83%、5.17% and 4.15% separately.

Dosage of 1 <sup>st</sup> 、2 <sup>nd</sup>	Group	Bacteria Count of Each test (cfu/mL pcs)			Average (cfu/mL pcs)
		1	2	3	
original solution produced by the machine, 0.5min	1 <sup>st</sup>	0	0	0	0
	2 <sup>nd</sup>	0	0	0	0
	3 <sup>rd</sup>	1.26×10 <sup>7</sup>	1.22×10 <sup>7</sup>	1.23×10 <sup>7</sup>	1.24×10 <sup>7</sup>
	4 <sup>th</sup>	1.30×10 <sup>7</sup>	1.30×10 <sup>7</sup>	1.31×10 <sup>7</sup>	1.30×10 <sup>7</sup>
	5 <sup>th</sup>	1.38×10 <sup>7</sup>	1.35×10 <sup>7</sup>	1.37×10 <sup>7</sup>	1.37×10 <sup>7</sup>
1:5 dilute solution produced by the machine, 0.5min	1 <sup>st</sup>	0	0	0	0
	2 <sup>nd</sup>	23	24	25	24
	3 <sup>rd</sup>	1.87×10 <sup>7</sup>	1.88×10 <sup>7</sup>	1.86×10 <sup>7</sup>	1.87×10 <sup>7</sup>
	4 <sup>th</sup>	2.12×10 <sup>7</sup>	2.13×10 <sup>7</sup>	2.10×10 <sup>7</sup>	2.12×10 <sup>7</sup>
	5 <sup>th</sup>	1.94×10 <sup>7</sup>	1.92×10 <sup>7</sup>	1.99×10 <sup>7</sup>	1.95×10 <sup>7</sup>

Note: 1) No bacterial growth in negative control group.

2) Disinfectant preparation: 500 mL pure water+3g salt without iodine, electrolysis for 10 minutes.

\*\*\*To be continued\*\*\*





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2. Killing Test Results

Effect concentration	Test Bacteria	The logarithm of the average number of Bacteria Count of Control	Test time	Average log kill value and its range	Average kill rate and its range (%) *
original solution produced by the machine	<i>Pseudomonas aeruginosa</i>	7.05	1min	>5.00	>99.999
			2min	>5.00	>99.999
			10min	>5.00	>99.999
	<i>Staphylococcus aureus</i>	7.03	1min	>5.00	>99.999
			2min	>5.00	>99.999
			10min	>5.00	>99.999

**Note:** 1) The negative control group of each test grew aseptically.

2) Killing Rate (%) =  $\frac{\text{Average number of Bacteria Count of Control (cfu/mL)} - \text{Bacteria Count of Sample (cfu/mL)}}{\text{Average number of Bacteria Count of Control (cfu/mL)}} \times 100\%$

3) According to the standard, in quantitative bacterial killing test, the suspension quantitative test was repeated three times, the killing logarithm value should be  $\geq 5.00$  respectively, the test sample can be judged as qualified disinfection.

4) Disinfectant preparation: 500 mL pure water+3g salt without iodine, electrolysis for 10 minutes.

\*\*\* End of report\*\*\*

Editor

Checker

Issuer

Date Reported

2021.2.24







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