



中国认可
国际互认
检测
TESTING
CNAS L0823



广州市微生物研究所有限公司

Guangzhou Institute of Microbiology Co., Ltd.

检测报告

TEST REPORT

Report Number

XJ20205924

Name of Sample

Sterilization Stick

Applicant

NON



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Test No.: XJ20205924

GUANGZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Dec. 7, 2020

Date Analyzed: Dec. 11, 2020

Name of Sample	Sterilization Stick	Test Type	Commissioned
Applicant	NON	Sample Source	Delivery
Manufacturer	NON	Type and Specification	7g
State of Sample	/	Batch Number	/
Packing of Sample	/	Date of Production	20/11/16
Quantity of Sample	One set	Brand	Dr.Clo
Standard and Methods	GB 27948-2020 General requirements for air disinfectant Appendix A.1 Neutralizer test for liquid shock sampling method* <i>Technical Standard For disinfection</i> (2002 edition) 2.1.3 Air disinfection effect identification test		
Items of Analysis	1. Neutralizer Identification Test(<i>Staphylococcus aureus</i> ATCC 6538, <i>Pseudomonas aeruginosa</i> ATCC 15442, <i>Klebsiella Pneumoniae</i> ATCC 4352) 2. Air disinfection laboratory test (<i>Staphylococcus aureus</i> ATCC 6538, <i>Pseudomonas aeruginosa</i> ATCC 15442, <i>Klebsiella Pneumoniae</i> ATCC 4352)		
Remarks	/		

To be continued



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Method for Testing Air Disinfection:

1. Test Equipments:

- 1) Test microorganism: *Staphylococcus aureus* ATCC 6538, *Pseudomonas aeruginosa* ATCC 15442, *Klebsiella Pneumoniae* ATCC 4352.
- 2) Microbial aerosol generator: TK-3.
- 3) Culture media: NA.
- 4) Neutralizer : 1% Na₂S₂O₃、 1% Soybean Lecithin、 3% Tween80 of PBS Solution.
- 5) Sampling Liquid impingement sampler.

2. Test Conditions

- 1) The volume of the test chamber: 1m³.
- 2) Environment temperature: 25°C.
- 3) Environment humidity: 60 % RH.

3. Test Procedures

- 1). Sample processing: 16~18h before the test, prepare 5 samples for activation according to the instructions, put the activated samples into a sealed plastic bag, put the sealed plastic bag in the cabin when starting the test, and open the sealed plastic bag.
- 2) Neutralizer Identification: follow GB 27948-2020 General requirements for air disinfectant Appendix A.1 Neutralizer test for liquid shock sampling method, Sample flow: 12.5L/min; Sampling time: 5min.
- 3) Air disinfection laboratory test: follow *Technical Standard For disinfection* (2002 edition) 2.1.3 Air disinfection effect identification test, Sample flow: 12.5L/min; Sampling time: 5min.

Test Results

1. Neutralizer Identification Test Results

1.1 Neutralizer Identification Test Results of *Pseudomonas aeruginosa*

During 3 repeat tests: original sample contact for 120min, Inter-group error rate of 1st, 2th and 3th are 3.78%, 3.78% and 4.33% separately.

Group	Bacteria Count of Each test (cfu/ Plate)			Average (cfu/ Plate)
	1	2	3	
1 st	142	136	128	135
2 nd	133	122	130	128
3 rd	148	130	142	140

Note: No bacterial growth in negative control group.

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1.2 Neutralizer Identification Test Results of *Klebsiella Pneumoniae*

During 3 repeat tests: original sample contact for 120min, Inter-group error rate of 1st, 2th and 3th are 11.49%, 5.30% and 6.45% separately.

Group	Bacteria Count of Each test (cfu/ Plate)			Average (cfu/ Plate)
	1	2	3	
1 st	56	60	58	58
2 nd	50	54	60	55
3 rd	68	62	68	66

Note: No bacterial growth in negative control group.

1.3 Neutralizer Identification Test Results of *Staphylococcus aureus*

During 3 repeat tests: original sample contact for 120min, Inter-group error rate of 1st, 2th and 3th are 6.88%, 9.20% and 6.28% separately.

Group	Bacteria Count of Each test (cfu/ Plate)			Average (cfu/ Plate)
	1	2	3	
1 st	62	58	56	59
2 nd	55	50	52	52
3 rd	67	66	62	65

Note: No bacterial growth in negative control group.

2. Air disinfection laboratory test

2.1 Air disinfection laboratory test of *Pseudomonas aeruginosa*

Test Number	Test Time (min)	Control Group		Test Group	
		Bacteria Count (cfu/m ³)	Natural Decay Rate N _t (%)	Bacteria Count (cfu/m ³)	Killing Rate K _t (%)
1	0	1.23×10 ⁶	48.21	8.80×10 ⁵	>99.96
	120	6.37×10 ⁵		<160	
2	0	1.04×10 ⁶	36.15	1.09×10 ⁶	>99.97
	120	6.64×10 ⁵		<160	
3	0	1.15×10 ⁶	46.43	1.09×10 ⁶	>99.97
	120	6.16×10 ⁵		<160	

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

2) According to the standard : the results of 3 tests are all ≥99.90% for the killing rate in the air, which is qualified for disinfection.

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2.2 Air disinfection laboratory test of *Klebsiella Pneumoniae*

Test Number	Test Time (min)	Control Group		Test Group	
		Bacteria Count (cfu/m ³)	Natural Decay Rate N _t (%)	Bacteria Count (cfu/m ³)	Killing Rate K _t (%)
1	0	5.84×10 ⁵	46.58	5.52×10 ⁵	>99.94
	120	3.12×10 ⁵		<160	
2	0	6.21×10 ⁵	46.70	5.65×10 ⁵	>99.94
	120	3.31×10 ⁵		<160	
3	0	5.68×10 ⁵	44.19	5.71×10 ⁵	>99.94
	120	3.17×10 ⁵		<160	

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

2) According to the standard : the results of 3 tests are all ≥99.90% for the killing rate in the air, which is qualified for disinfection.

2.3 Air disinfection laboratory test of *Staphylococcus aureus*

Test Number	Test Time (min)	Control Group		Test Group	
		Bacteria Count (cfu/m ³)	Natural Decay Rate N _t (%)	Bacteria Count (cfu/m ³)	Killing Rate K _t (%)
1	0	2.91×10 ⁵	45.02	3.41×10 ⁵	>99.91
	120	1.60×10 ⁵		<160	
2	0	3.20×10 ⁵	53.44	3.60×10 ⁵	>99.90
	120	1.49×10 ⁵		<160	
3	0	2.77×10 ⁵	38.27	3.17×10 ⁵	>99.91
	120	1.71×10 ⁵		<160	

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

2) According to the standard : the results of 3 tests are all ≥99.90% for the killing rate in the air, which is qualified for disinfection.

*** End of report***

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