



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

XJ20212911

Name of Sample

AIRPLOT

Applicant

Changzhou Mulaajia Technology Co.,
Ltd.



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Test No.: XJ20212911

GUANGZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Aug. 25, 2021

Date Analyzed: Sep. 3, 2021

Name of Sample	AIRPLOT	Test Type	Commissioned
Applicant	Changzhou Mulaajia Technology Co., Ltd.	Sample Source	Delivery
Manufacturer	Japan zen-world company	Type and Specification	AIRPLOT for glass
State of Sample	Liquid	Batch Number	—
Packing of Sample	Bottled	Date of Production	20210801
Quantity of Sample	1 份	Brand	AIRPLOT
Photo of Sample			
Standard and Methods	QB/T 2738-2012 Test methods for evaluating daily chemical products in antibacterial and bacteriostatic efficacy Technical Standard For disinfection(2002)2.2.3.3		
Items of Analysis	1、Neutralizer Identification Test (<i>Escherichia coli</i> ATCC 25922、 <i>Staphylococcus aureus</i> ATCC 6538、 <i>Candida albicans</i> ATCC 10231、 <i>Klebsiella pneumoniae</i> ATCC 4352) 2、Killing rate(<i>Escherichia coli</i> ATCC 25922, <i>Staphylococcus aureus</i> ATCC 6538 , <i>Candida albicans</i> ATCC 10231、 <i>Klebsiella pneumoniae</i> ATCC 4352) 3、Stability test of Killing rate (1year)		
Remarks	Effect concentration: original solution All tests shall be conducted under the illumination of light		

To be continued



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Test Results

1. Neutralizer Identification Test Results

1.1 Neutralizer Identification Test Results of *Escherichia coli*

Neutralizer (D/E Neutralizing Broth) during 3 repeat tests: original solution of sample contact for 1min, Inter-group error rate of 3rd, 4th and 5th are 3.78%, 3.98% and 5.05% separately.

Dosage of 1 st , 2 nd	Group	Bacteria Count of Each test (cfu/mL)			Average (cfu/mL)
		1	2	3	
original solution, 1min	1 st	2.10×10 ²	1.90×10 ²	1.90×10 ²	1.97×10 ²
	2 nd	5.80×10 ²	6.10×10 ²	5.50×10 ²	5.80×10 ²
	3 rd	6.10×10 ⁴	6.70×10 ⁴	6.40×10 ⁴	6.40×10 ⁴
	4 th	6.60×10 ⁴	6.30×10 ⁴	6.30×10 ⁴	6.40×10 ⁴
	5 th	6.70×10 ⁴	7.10×10 ⁴	7.10×10 ⁴	6.97×10 ⁴

Note: No bacterial growth in negative control group.

1.2 Neutralizer Identification Test Results of *Staphylococcus aureus*

Neutralizer (D/E Neutralizing Broth) during 3 repeat tests: original solution of sample contact for 0.5min, Inter-group error rate of 3rd, 4th and 5th are 9.26%, 10.53% and 7.88% separately.

Dosage of 1 st , 2 nd	Group	Bacteria Count of Each test (cfu/mL)			Average (cfu/mL)
		1	2	3	
original solution, 0.5min	1 st	0	0	0	0
	2 nd	4.20×10 ²	4.50×10 ²	4.40×10 ²	4.37×10 ²
	3 rd	3.50×10 ⁴	3.70×10 ⁴	3.30×10 ⁴	3.50×10 ⁴
	4 th	3.20×10 ⁴	3.30×10 ⁴	3.60×10 ⁴	3.37×10 ⁴
	5 th	4.10×10 ⁴	4.40×10 ⁴	4.10×10 ⁴	4.20×10 ⁴

Note: No bacterial growth in negative control group.

1.3 Neutralizer Identification Test Results of *Candida albicans*

Neutralizer (D/E Neutralizing Broth) during 3 repeat tests: original solution of sample contact for 0.5min, Inter-group error rate of 3rd, 4th and 5th are 5.62%, 5.34% and 6.61% separately.

Dosage of 1 st , 2 nd	Group	Bacteria Count of Each test (cfu/mL)			Average (cfu/mL)
		1	2	3	
original solution, 0.5min	1 st	0	0	0	0
	2 nd	1.02×10 ³	1.05×10 ³	1.04×10 ³	1.04×10 ³
	3 rd	1.15×10 ⁴	1.24×10 ⁴	1.23×10 ⁴	1.21×10 ⁴
	4 th	1.05×10 ⁴	1.11×10 ⁴	1.09×10 ⁴	1.08×10 ⁴
	5 th	1.24×10 ⁴	1.27×10 ⁴	1.31×10 ⁴	1.27×10 ⁴

Note: No bacterial growth in negative control group.

To be continued



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1.4 Neutralizer Identification Test Results of *Klebsiella pneumoniae*

Neutralizer (D/E Neutralizing Broth) during 3 repeat tests: original solution of sample contact for 0.5min, Inter-group error rate of 3rd, 4th and 5th are 6.31%, 7.14% and 8.18% separately.

Dosage of 1 st , 2 nd	Group	Bacteria Count of Each test (cfu/mL)			Average (cfu/mL)
		1	2	3	
original solution, 0.5min	1 st	0	0	0	0
	2 nd	1.18×10 ³	1.16×10 ³	1.19×10 ³	1.18×10 ³
	3 rd	5.70×10 ⁴	5.50×10 ⁴	5.20×10 ⁴	5.47×10 ⁴
	4 th	5.10×10 ⁴	5.10×10 ⁴	5.00×10 ⁴	5.07×10 ⁴
	5 th	6.10×10 ⁴	6.20×10 ⁴	6.10×10 ⁴	6.13×10 ⁴

Note: No bacterial growth in negative control group.

2. Killing rate Results (Before storage)

Number of Sample	Test Time	Test Bacteria	Test Number	Bacteria Count of Control (cfu/ mL)	Bacteria Count of Sample (cfu/ mL)	Killing Rate (%)	
						result calculation	report
XJ20212911-1	6h	<i>Escherichia coli</i>	1	1.91×10 ⁴	<10	>99.9	>99
			2	1.94×10 ⁴	<10		
			3	1.94×10 ⁴	<10		
			Average	1.93×10 ⁴	<10		
		<i>Staphylococcus aureus</i>	1	4.70×10 ⁴	<10	>99.9	>99
			2	4.30×10 ⁴	<10		
			3	4.20×10 ⁴	<10		
			Average	4.40×10 ⁴	<10		
		<i>Candida albicans</i>	1	1.09×10 ⁴	<10	>99.9	>99
			2	1.19×10 ⁴	<10		
			3	1.13×10 ⁴	<10		
			Average	1.14×10 ⁴	<10		
		<i>Klebsiella pneumoniae</i>	1	3.80×10 ⁴	<10	>99.9	>99
			2	3.50×10 ⁴	<10		
			3	3.20×10 ⁴	<10		
			Average	3.50×10 ⁴	<10		

Note: According to the standard: killing rate ≥90%, the product has a bactericidal effect.

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3. Killing rate Results (Stored at 54°C for 14 days)

Number of Sample	Test Time	Test Bacteria	Test Number	Bacteria Count of Control (cfu/mL)	Bacteria Count of Sample (cfu/mL)	Killing Rate (%)	
						result calculation	report
XJ20212911-1	6h	<i>Staphylococcus aureus</i>	1	6.20×10^4	< 10	> 99.9	> 99
			2	6.30×10^4	< 10		
			3	6.70×10^4	< 10		
			Average	6.40×10^4	< 10		

Note: According to the standard: killing rate $\geq 90\%$, the product has a bactericidal effect.

*** End of report***

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Date Reported





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