

SUBJECT Microbiological Test

TEST LOCATION TÜV SÜD China

TÜV SÜD Products Testing (Shanghai) Co., Ltd.
B-3/4, No.1999 Du Hui Road, Minhang District
Shanghai 201108, P.R. China



CLIENT NAME Nanjing Alton Technology Co., Ltd.

CLIENT ADDRESS No.1 Linhe North Road Pukou District, Nanjing

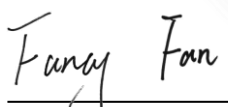
TEST PERIOD 13-Feb-2025~21-Feb-2025

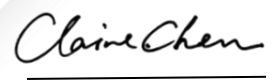
TEST REQUEST Antibacterial Test- with reference to ISO 22196:2011

COMMENT
1.The Log values of antimicrobial activity for *Escherichia coli* of the products is 6.7.
2.The Log values of antimicrobial activity for *Staphylococcus aureus* of the products is 5.9 .

Prepared By

Authorized By


(Fancy Fan)
Report Drafter


(Claire Chen)
Authorized Signatory



Note: (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied." .For full version, please visit:
<https://www.tuvsud.com/en/terms-and-conditions>

(2) The results in this report are relevant only to the sample(s) tested.

(3) The test report may not be reproduced either in part or in full.

(4) Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.

Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements.

By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

(5) The testing report without CMA stamp is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

SAMPLE SOURCE /RECEIPT DATE/ TEST DATE

Logistics Express /13-Feb-2025/13-Feb-2025

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED

BY/ ON BEHALF OF THE CLIENTS AS:

Sample Name: Antibacterial Floor Scrubber
Sample Type/ Specification: Ag⁺
Batch No./Date: /
Manufacturer: /

SAMPLE NO.	DESCRIPTION	TEST PART	PHOTOGRAPH
7216000794	Grey Sheet	Smooth Surface	

TEST METHOD(S)

Antibacterial Test

- with reference to ISO 22196:2011 Measurement of antibacterial activity on plastics and other non-porous surfaces

TEST ORGANISM(S)

Escherichia coli ATCC 8739
Staphylococcus aureus ATCC 6538P

TEST RESULT(S)

Name of test bacteria	Concentration of bacteria (CFU/mL)	The average(cells/cm ²) of the common Logarithm of the number of viable bacteria recovered			Log value of antimicrobial activity	Antibacterial rate (%) [*]
		/	at "0h" contact time	at "24h" contact time		
<i>Escherichia coli</i> ATCC 8739	5.8×10 ⁵	Sample	/	-0.2	6.7	>99.9
		Control Sample	3.8	6.5		
<i>Staphylococcus aureus</i> ATCC 6538P	6.5×10 ⁵	Sample	/	-0.2	5.9	>99.9
		Control Sample	3.9	5.7		

Note:

1. The control sample is provided by TÜV SÜD laboratory.
- 2.*Antibacterial Rate(%) according to customer's requirement,
calculation formula = $\frac{\text{Control recovered count 24h} - \text{test recovered count 24h}}{\text{Control recovered count 24h}} \times 100\%$
3. Preparation of test specimens by wiping with 70% ethanol in water.
4. The volume of the test inoculum used is 0.2 mL. The surface area of the cover film is 1600 mm².
5. 0.05% Polysorbate80 was added to the test inoculum.

-END OF THE TEST REPORT-