



推荐实验室

SUBJECT Microbiological Analysis

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 Tonglu Top-Pro Imp&Exp Co., Ltd

CLIENT ADDRESS Dongxi Industrial park, Fenshui Town, Tonglu, Hangzhou, Zhejiang, China

TEST PERIOD 23-Jun-2020~07-Jul-2020

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

Prepared By

Bella Xu

(Bella Xu)
Report Drafter

Authorized By

Steven Zhang

(Steven Zhang)
Authorized Signatory



Note: (1) General Terms & Conditions as mentioned overleaf. (2) The results relate only to the items tested.(3) The test report shall not be reproduced except in full without the written approval of the laboratory.(4) Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.


RECEIPT DATE / TEST DATE

23-Jun-2020/ 23-Jun-2020

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED

BY/ ON BEHALF OF THE CLIENTS AS:

Sample Name: Ball pen
Sample Specification: /
Batch No./Date: /
Manufacturer: Tonglu Top-Pro Imp&Exp Co., Ltd

SAMPLE NO.	DESCRIPTION	TEST PART	PHOTOGRAPH
721655944	White sample	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)	Volume of test inoculum (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	6.2×10 ⁵	0.2	721655944	/	<-0.2	>6.8	>99.99
			Control Sample	3.9	6.6		
<i>Staphylococcus aureus</i> ATCC 6538P	6.4×10 ⁵	0.2	721655944	/	1.8	3.8	99.99
			Control Sample	3.9	5.6		

Note:

- The control Sample provided by TÜV SÜD laboratory.
- * Antibacterial Rate(%) according to customer's requirement,
calculation formula = $\frac{\text{Control count 24h} - \text{test count 24h}}{\text{Control count 24h}} \times 100\%$
- This report is for internal use only such as internal scientific research ,education, quality control, product R&D.

-END OF THE TEST REPORT-