

TIANJIN GLORY TANG TEXTILE CO LTD

# 801-812, CHINA OVERSEAS PLAZA, NO.57 WUJIAYAO STREET, HEXI DIST, TIANJIN 300074, CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : Chitosan blend fabric: 9.2%Chitosan+82.8% Lenzing Modal+8%Spandex in beige

Sample Receiving Date : Nov 14, 2023

Testing Period : Nov 20, 2023 - Nov 29, 2023

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Zoey Zhu (Account Executive)



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Test Result

Test Requested: Selected test(s) as requested by applicant: Antimicrobial activity test \*

Test Method: AATCC 100-2019 Test Method for Antibacterial Finishes on Textile Material: Assessment of

Test organism(s)	Candida Albicans ATCC 10231
Concentration of bacteria (CFU/mL)	1.9×10 <sup>5</sup>
Treated test specimen-at "0h" contact time (CFU/sample)	1.6×10 <sup>5</sup>
Treated test specimen-at "24h" contact time (CFU/sample)	5.3×10 <sup>5</sup>
Untreated Control specimen/ Viability control specimen- at "0h" contact time (CFU/sample)	1.8×10 <sup>5</sup>
Untreated Control specimen/ Viability control specimen - at "24h" contact time (CFU/sample)	2.9×10 <sup>7</sup>
Reduction(%)	98.2

Test organism(s)	Escherichia coli ATCC 8739
Concentration of bacteria (CFU/mL)	2.3×10 <sup>5</sup>
Treated test specimen-at "0h" contact time (CFU/sample)	1.8×10 <sup>5</sup>
Treated test specimen-at "24h" contact time (CFU/sample)	1.5×10 <sup>6</sup>
Untreated Control specimen/ Viability control specimen- at "0h" contact time (CFU/sample)	2.2×10 <sup>5</sup>
Untreated Control specimen/ Viability control specimen- at "24h" contact time (CFU/sample)	1.8×10 <sup>8</sup>
Reduction(%)	99.2

Test organism(s)	Staphylococcus aureus ATCC 6538
Concentration of bacteria (CFU/mL)	2.7×10 <sup>5</sup>
Treated test specimen-at "0h" contact time (CFU/sample)	2.3×10 <sup>5</sup>
Treated test specimen-at "24h" contact time (CFU/sample)	1.3×10 <sup>5</sup>
Untreated Control specimen/ Viability control specimen- at "0h" contact time (CFU/sample)	2.6×10 <sup>5</sup>
Untreated Control specimen/ Viability control specimen- at "24h" contact time (CFU/sample)	6.2×10 <sup>7</sup>
Reduction(%)	99.8



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**Notes:**

Treated test specimen has not been sterilized before the testing.

The untreated test specimen is standard antimicrobial test viability control fabric from International Antimicrobial Council

The neutralizer is DE broth.

The diluent is 1/20NB+0.05% Triton X-100.

Size and shape of test swatches: 4 pieces/square/3.8×3.8cm, equal 1.0g.

Reduction calculation method:

$R=100(B-A)/B$ ;

R=reduction(%);

A=the number of bacteria recovered from the inoculated treated test specimen swatches in the jar incubated over the 24-h contact period;

B= the number of bacteria recovered from the inoculated untreated test specimen swatches in the jar incubated over the 24-h contact period.

The testing item(s) marked \* was(were) subcontracted, and the testing result(s) was(were) provided by SGS – CSTC Standards Technical Services (Qingdao) Co., Ltd.

**Sample Photo**



\*\*\*End of Report\*\*\*



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