

Test Report

No. SDHL1709020429HI

Date: Nov.20, 2017

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

Sample Description : SUNSCREEN FABRIC
 SGS Ref. No. : GZAFN1709016921P001
 Sample Receiving Date : Sep.28, 2017
 Test Performing Date : Sep.28, 2017 to Nov.17, 2017

Test Result Summary

Test(s) Requested	Result(s)	Comments
Antimicrobial activity test With reference to ASTM G 21-15	Please refer to the following page(s)	/
For further details, please refer to the following page(s)		

Signed for and on behalf of
 Shunde Branch
 SGS-CSTC Co., Ltd.

Peter Zhao
 Approved signatory



SGS-CSTC (Shanghai) Inspection & Testing Services Co., Ltd.
 Shunde Branch

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TEST RESULT(S):

Antimicrobial activity test

Test method: With reference to ASTM G 21-15

Test organisms: *Aspergillus brasiliensis*^A ATCC 9642, *Penicillium funiculosum*^B ATCC 11797, *Aureobasidium pullulans* ATCC 15233, *Chaetomium globosum* ATCC 6205, *Trichoderma virens*^C ATCC 9645

Test Fungi	Concentration of spores (spores /mL)	Rating observed growth on specimens (after 28 days)
<i>Aspergillus brasiliensis</i> ^A ATCC 9642	1.0X10 ⁶	0 Grade*
<i>Penicillium funiculosum</i> ^B ATCC 11797		
<i>Aureobasidium pullulans</i> ATCC 15233		
<i>Chaetomium globosum</i> ATCC 6205		
<i>Trichoderma virens</i> ^C ATCC 9645		

Notes:

1. According to ASTM G 21-15 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi, observed fungi growth rating on the specimens include:

0 – None

1 – Traces of growth (less than 10%)

2 – Light growth (10 to 30%)

3 – Medium growth (30 to 60%)

4 – Heavy growth (60% to complete coverage)

Remark: History name of test organism

^AHistorically known as *A.niger*.

^BHistorically known as *P.pinophilum*.

^CHistorically known as *Glucocladium virens*.

2.* The microscope(50 X) was used to confirm the observation.

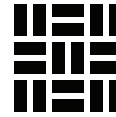


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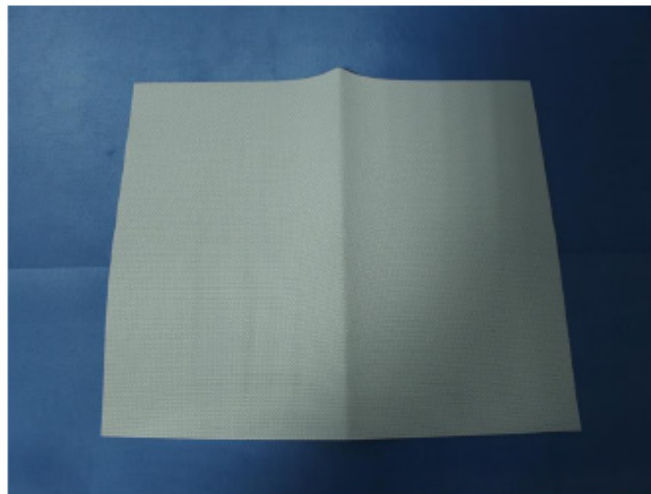
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SAMPLE DESCRIPTION: Fabric

Photo Appendix:



Remark: This test was subcontracted to SGS-CSTC Standards Technical Services Co.,Ltd. Guangzhou Branch.

End of Report



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