

During the period of October 17 to November 2, 2018, Hopkins Medical Products conducted a test of antimicrobial activity (JIS L 1902) on its Microban[®] coated proprietary fabric in an independent lab. After an 18-hour exposure with comparison to a control specimen, both Staphylococcus Aureus (ATCC 6538) and Escherichia Coli (ATCC 8739) samples were found reduced by more than 99%.

TEST REPORT

Mechanical & Hardgoods Laboratory

Report No. : HLO0358/2018 Page: 1 of 3 Date: NOV. 02, 2018

Hopkins Medical Products

The following merchandise was submitted and identified by the applicant as:				
Product Description:	Tetoron Cotton Blend			
Country of Origin:	Taiwan			
We have tested the submitted sample(s) as requested and the following results were obtained:Test Requested:Antibacterial activity (JIS L 1902)				

- <u>Test Method & Result:</u> ---See following sheet(s)---
- Date of Receipt: OCT. 17, 2018

<u>Testing Period:</u> OCT. 17, 2018 – NOV. 02, 2018



TEST REPORT

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2.9

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>6.2

Test Method & Result:

Test Organism:	Staphylococcus aureu	ATCC 6538P
Absorption Method	CFU	LOG
The test inoculum (CFU/mL)	1.8X10 ⁵	5.3
Control specimen at 0h (C ₀)	3.7x10 ⁴	4.6
Control specimen after 18h (Ct)	3.3X10 ⁷	7.5
Test specimen at Oh (T ₀)	$4.0X10^{4}$	4.6
Test specimen after 18h (Tt)	<20	<1.3
Control specimen growth value (F) $F = \log C_t - \log C_0$	Test specimen growth value (G) $G = \log T_t - \log T_0$	Antibacterial activity value (A) $A = (\log C_t - \log C_0) - (\log T_t - \log T_0)$ *In the case of log C ₀ > log T ₀ , substitute log C ₀ for log T ₀

Test Organism:	Escherichia coli	ATCC 8739
Absorption Method	CFU	LOG
The test inoculum (CFU/mL)	1.8X10 ⁵	5.3
Control specimen at 0h (C ₀)	3.6x10 ⁴	4.6
Control specimen after 18h (Ct)	$2.4 X 10^{6}$	6.4
Test specimen at 0h (T ₀)	3.4X10 ⁴	4.5
Test specimen after 18h (Tt)	<20	<1.3

-3.3

Control specimen growth value (F) $F = \log C_t - \log C_0$	Test specimen growth value (G) $G = \log T_t - \log T_0$	Antibacterial activity value (A) $A = (\log C_t - \log C_0) - (\log T_t - \log T_0)$ *In the case of log C ₀ > log T ₀ , substitute log C ₀ for log T ₀
1.8	-3.2	>5.1



TEST REPORT

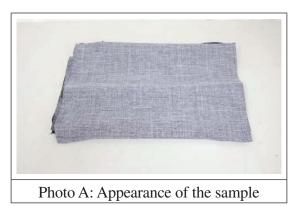
Mechanical & Hardgoods Laboratory

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Note:

- 1. The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.
- 2. The report is in vain if it is partly reproduced or used.
- 3. The test inoculum shall be at $1.0X10^5$ to $3.0X10^5$ CFU/mL
- 4. Control specimen growth value (F) shall be ≥ 1.0
- 5. Antibacterial activity value (A) shall be $2.0 \le A \le 3.0$ for Effect antibacterial property.
- 6. Antibacterial activity value (A) shall be $3.0 \le A$ for Full effect antibacterial property.
- 7. This test report is used for the reference of making your own report and the hard copy is not required.
- 8. The test was conducted in SGS Food Laboratory-Kaohsiung.

- Picture(s) -



--- End of Report ---