

Test Report

Applicant: METAL MAX TEXTILE Co.,Ltd.
4F.-6, No. 5, Sec. 3, New Taipei Blvd.,
Xinzhuang Dist., New Taipei City 242,
Taiwan, R.O.C.

Number : TWNC01160962
Date Issued : Mar 21, 2023

Sample Description:

One (1) piece of submitted sample said to be :
Item Name : MetalMax Black Antibacterial Fabric
Color : Black
Country of Origin : Taiwan
Manufacturer : METAL MAX TEXTILE Co.,Ltd.
Date Sample Received : Feb 21, 2023
Date Test Started : Feb 21, 2023

Remarks: This report was translated from report TWNC01155201 Mar 13, 2023.

Test Conducted:


As requested by the applicant, for details please refer to attached pages.

Authorized By:
On behalf of Intertek Testing Services
Taiwan Limited


Anna Jing
Assistant General Manager



Signed by:


Thomas Chou
Manager



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Test Conducted :

1. Antibacterial Activity Test

As per applicant's request with reference to AATCC TM100-2019.

Prewash for 200 cycles as per AATCC TM135-2018t, machine wash at 27±3°C, normal cycle, and prewash for 8 cycles with clear water, tumble dry low.

Test Organism : *Escherichia coli* (ATCC 8739)
Sterilization Of Sample Before Test : Autoclave At 121°C, 15 Minutes
Neutralizing Solution : Dey Engley Broth
Concentration Of Surfactant : 0.05% Triton X-100
Contact Time : 24 Hours
Incubation Temperature : 37±2°C
Incubation Period : 24-48 Hours
Agar Medium : Nutrient Agar
Swatches Weight : 1.0±0.1 g

Tested Specimen : Submitted Sample (Swatches with 3.8 X 3.8±0.1 cm)

Result :

Name Of Test Bacteria (Strain Number)	<i>Escherichia coli</i> (ATCC 8739)
The number of bacteria recovered from the inoculated viability control fabric swatches immediately after inoculation ("0" contact time) (D)	2.2 x 10 ⁵ CFU/Sample
The number of bacteria recovered from the inoculated viability control fabric swatches incubated over 24 hours contact period (B')	8.5 x 10 ⁸ CFU/Sample
The number of bacteria recovered from the inoculated untreated control sample swatches incubated over 24 hours contact period (B)	2.4 x 10 ⁸ CFU/Sample
The number of bacteria recovered from the inoculated tested sample swatches immediately after inoculation ("0" contact time) (C)	1.3 x 10 ⁵ CFU/Sample
The number of bacteria recovered from the inoculated tested sample swatches incubated over 24 hours contact period (A)	<100 CFU/Sample
Growth value (F)	3.59
Percent reduction of Bacteria (R)	>99.99%

Calculation of percent reduction of Bacteria:

$$R = (B-A)/B \times 100\%$$

$$F = \text{Log } B' - \text{Log } D$$

Remarks : CFU = Colony forming unit

< = Less than

> = More than

Viability control fabric = Cotton standard adjacent fabric(cotton No.3) specified in JIS L0803

The untreated control sample was submitted by applicant.





End of Report

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