

Test Report

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

Number : TWNC01160964

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 TWNC0115521801 dated Mar 08, 2023.

Test Conducted:

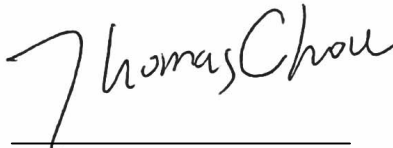
As requested by the applicant, for details please refer to attached pages.

Authorized By:
On behalf of Intertek Testing Services
Taiwan Limited


Anna Jing
Assistant General Manager



Signed by:


Thomas Chou
Manager



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Intertek Testing Services Taiwan Ltd.

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Test Conducted :

1. Anti-Bacterial Activity Test (Quantitative):

As per applicant's request with reference to standard test method ASTM E2149-20.

Prewash for 150 cycles as per AATCC 135-2018t, machine wash at 27±3°C, normal cycle, and prewash for 6 cycles with clear water, tumble dry low.

Test Culture : *Staphylococcus aureus* (ATCC 6538)
Escherichia coli (ATCC 8739)
Klebsiella pneumoniae (ATCC 4352)

Test Specimen : Submitted Sample (1 gram with 50 ml Working Dilution Of Bacterial Inoculum Per Trial)

Sterilization Of Sample Before Test : Autoclave At 121°C, 15 Minutes

Working Buffer Solution : Phosphate Buffer

Broth Media : Tryptic Soy Broth

Wetting Agent : 0.01% DC Q2-5211

Contact Time : 24 Hour ±5 Mins

Incubation Temperature : 35±2°C

Incubation Period : 24 Hours

Agar Medium : Plate Count Agar

Result:

Name Of Test Bacteria (Strain Number)	<i>Staphylococcus aureus</i> (ATCC 6538)	<i>Escherichia coli</i> (ATCC 8739)
Initial Count	1.7 X10 ⁵ CFU/ml	2.6 X10 ⁵ CFU/ml
The number of bacteria recovered from the inoculum only flask after the specified contact time (b)	7.7 X10 ⁶ CFU/ml	1.6 X10 ⁷ CFU/ml
The number of bacteria recovered from the containing the treated sample after the specified contact time (a)	1.5 X10 ³ CFU/ml	3.6 X10 ⁴ CFU/ml
Percent reduction of Bacteria	99.98%	99.79%

Name Of Test Bacteria (Strain Number)	<i>Klebsiella pneumoniae</i> (ATCC 4352)
Initial Count	2.6 X10 ⁵ CFU/ml
The number of bacteria recovered from the inoculum only flask after the specified contact time (b)	5.8 X10 ⁶ CFU/ml
The number of bacteria recovered from the containing the treated sample after the specified contact time (a)	3.4 X10 ⁴ CFU/ml
Percent reduction of Bacteria	99.41%

Calculation: Percent reduction of bacteria = (b-a)/b × 100%

Remark : CFU = Colony forming unit





End of Report

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