



Test Report

Number: SHOJ22029056002

Applicant: Tact Global Holding Limited
Unit G, 6th Floor, Yardley Commerical Building, 3 Connaught
Road West, Sheung Wan, Hong Kong

Date: 26 Jul, 2022

Sample Description:

Sample Name : air filter
Test Purpose : Entrust Test
Manufacturer : Guangzhou Anfu Environmental Protection Technology Co., Ltd.

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai

Sammy Shen
FOOD Senior Manager



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Anti-Bacterial Activity Test:

<Determination of Antibacterial Activity of Textile Product - ISO 20743:2021: Absorption Method>

Sterilization in the autoclave (121°C, 15min) Of Sample Before Test.

Contact Time: 18~24 Hours

Incubation Time: 18~24 Hours

Incubation Temperature: 37±2°C

Concentration: 1~3×10⁵ CFU/mL

Quantity: 0.2mL

Test Sample: 0.40±0.05g

Test Culture: Staphylococcus Aureus (ATCC 6538)

Klebsiella Pneumoniae (ATCC 4352)

Test Result:

Test bacteria	Staphylococcus aureus	Klebsiella pneumoniae
Concentration of inoculums (CFU/mL)	2.3×10 ⁵	2.4×10 ⁵
Growth value of the control F (F= lgC _i -lgC ₀)	3.1 (lgC _i : 7.8 , lgC ₀ : 4.7)	3.3 (lgC _i : 8.0 , lgC ₀ : 4.7)
Growth value of the sample G (G= lgT _i -lgC ₀)	-3.4 (lgT _i : 1.3, lgC ₀ : 4.7)	-0.2 (lgT _i : 4.5, lgC ₀ : 4.7)
Antibacterial activity value A (A=F-G)	6.5	3.5
Measuring method	Plate count method	Plate count method

Remark:

A = Antibacterial activity value

F =Growth value of the control specimen

G= Growth value of the antibacterial testing specimen

lgC_i =the average number of bacteria, obtained from three test control fabric after an 18-24h incubation;lgC₀ =the average number of bacteria, obtained from three test control fabric immediately after incubation;lgT_i=the average number of bacteria, obtained from three test treated sample after an 18-24h incubation;lgT₀=the average number of bacteria, obtained from three test treated sample immediately after incubation;

When the test has been judged to be effective, obtain the antibacterial activity value according to the following formula, in case of lgC₀>lgT₀, substitute lgC₀ for lg T₀.

$$A=(\lg C_i - \lg C_0) - (\lg T_i - \lg C_0) = F - G$$

Sample Received Condition: Sample In Closed Plastic Bag.

Preparation of sample: The submitted sample was washed for ___/___ wash and then subjected to the following test.

From the testing result, the efficacy of antibacterial property of the test fabric can be considered as shown in below table.

Efficacy of antibacterial property	Antibacterial Value: A
Low	A < 2
Significant	2 ≤ A < 3
Strong	A ≥ 3

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Date Sample Received: 18 Jul, 2022

Testing Period: 18 Jul, 2022 To 26 Jul, 2022

End of report

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