

Test Report

GZF23-015916-02

Date: 30 May 2023

Client Name: Tact Global Holding Limited

Client Address: 6/F, Yardley Commercial Building, 3 Connaught Road West, Sheung Wan, Hong Kong

Sample Name: KirinShield Nano Platinum Sanitizer treated towels

Manufacturer: Guangzhou Anfu Environmental Protection Technology Co., LTD

Sample Batch No.: /

Production Date: /

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS Reference No. : GZPC2305002783

Date of Sample Received : 22 May 2023

Testing Period : 22 May 2023 - 30 May 2023

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).



scan to see the report



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SGS Authorized Signature

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Sample Description :

Specimen No.	SGS Sample ID	Description
1	GZF23-015916.001	Fabric

Test Result(s) :

Test Requested : Antibacterial Assessment for the submitted sample

Test Method : ISO 20743-2021(E) Textiles-Determination of antibacterial activity of textile products: 8.1 Absorption method

GZF23-015916.001

Test organism(s)	Klebsiella pneumoniae ATCC 4352	Candida albicans ATCC 10231
Test inoculum (CFU/mL)	1.7x10 ⁵	1.6x10 ⁵
F	2.6	1.4
IgCt	7.1	5.9
IgC0	4.5	4.5
G	-3.2	-3.2
IgTt	1.3	1.3
IgT0	4.4	4.5
A*	5.8	4.6
Antibacterial activity(%)***	>99.99	>99.99
Comment	Strong Effect	/

Test organism(s)	Escherichia coli ATCC 8739	Staphylococcus aureus ATCC 6538
Test inoculum (CFU/mL)	2.0x10 ⁵	1.8x10 ⁵
F	3.8	3.0
IgCt	8.4	7.5
IgC0	4.6	4.5
G	-3.3	-3.2
IgTt	1.3	1.3
IgT0	3.8	3.8

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	Escherichia coli ATCC 8739	Staphylococcus aureus ATCC 6538
A*	7.1	6.2
Antibacterial activity(%)***	>99.99	>99.99
Comment	/	Strong Effect

Notes :

The control sample was 100% cotton fabric, provided by SGS lab.

F: Growth value of F on the control specimens (F=lgCt-lgC0);

G: Growth value of G on the antibacterial testing specimens (G=lgTt-lgT0);

A*: antibacterial activity value (A=F-G);

lgCt: common logarithm of arithmetic average of the numbers of bacteria, obtained from three control specimens after 24 h incubation;

lgC0: common logarithm of arithmetic average of the numbers of bacteria, obtained from three control specimens immediately after incubation;

lgTt: common logarithm of arithmetic average of the numbers of bacteria, obtained from three test specimens after 24 h incubation;

lgT0: common logarithm of arithmetic average of the numbers of bacteria, obtained from three test specimens immediately after incubation.

The testing specimens sterilization method was autoclave sterilization method (121 °C, 15 min).

The testing specimens incubation time was 24 h.

The testing measuring method was plate count method.

* In case of C0> T0, substitute C0 for T0.

*** The percentage of Antibacterial activity value(%) is added by client requirement, the calculate formulation is $[(Ct-Tt)/Ct] * 100$.

The efficacy of antibacterial property requirement of ISO20743:2021(E): Low Effect: A <2; Significant Effect: 2.0≤A<3.0; Strong Effect: A≥3.0

Unless otherwise stated, the judgement of compliance in this report is based on whether the test result is within the specified limits or specifications with no account taken of the uncertainty.

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Sample photo:



SGS authenticate the photo on original report only

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Chinese shall prevail in this report.

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*** End ***



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