

Design / Craft Style Allegro with Antimicrobial Treatment

Characteristics of Design / Craft Fabrics with Antimicrobial Treatment:

- Design / Craft antimicrobial fabrics are manufactured to inhibit the growth of bacteria that may cause odors.

Re: AATCC Method 100 Test of Allegro Washed 30X

Introduction:

- Allegro fabric samples labeled 0.70% Ztrex 72 1.5% BZ-1 (30 Washings) were submitted for quantitative (AATCC 100) antibacterial assessment.

Materials and Methods:

AATCC Method 100 was used to quantitatively assess the antibacterial activity of the fabric. Fabric samples were tested in triplicate against each challenge bacteria. All bacteria were grown overnight in brain heart infusion broth and washed twice in sterile saline. 250µl of diluted inoculum was placed onto each disc of fabric (two per test vessel for 500µl total). After incubation the surviving bacteria were recovered from the fabric by dilution in 50 ml of sterile letheen neutralizing broth followed by 1 minute of sonication and 1 minute of wrist action shaking. Each serial dilution was spread plated on nutrient agar and resultant colonies were counted. Percent and log reduction were calculated using the formula provided.



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Results:

AATCC 100 (quantitative antibacterial)

Staphylococcus aureus ATCC 6538 (Gram-positive bacteria)

Sample	Ave. "0" hr inoculum control cell count CFU/mL	Ave. 24 hr surviving cell count CFU/mL	Percent Reduction	Log
0.70% Ztrex 72 1.5% BZ-1 (30 Washings)	8×10^5	$<1 \times 10^2$	99.987	3.91

Klebsiella pneumoniae ATCC 4352 (Gram-negative bacteria)

Sample	Ave. "0" hr inoculum control cell count CFU/mL	Ave. 24 hr surviving cell count CFU/mL	Percent Reduction	Log Reduction
0.70% Ztrex 72 1.5% BZ-1 (30 Washings)	2.2×10^5	1.43×10^2	99.936	3.2