

Vivothreads (VN) Company Limited

Factory No. A1, A2 and A3 - Factory A, GT-Industrial Rental Factory Area, Street No. 6, Nhon Trach VI industrial Park, Phuoc An Commune, Dong Nai Province, Vietnam

This report supersedes all previous documents bearing the test report number (Report No) with amendment in updated sample information (cancel sample B information)

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) CTX-H Knit Fabric - After 1w (Batch# CTX-H 101025)

TRF No. : TRF5J013662

Retest : No

Sample Receiving Date : Oct 14, 2025

Testing Period : Oct 14, 2025 - Oct 27, 2025

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant

Residual samples returned to applicant.

Signed for and on behalf of
SGS (Hong Kong) Limited



Fong Lai Yin, Alex, Technical Manager

Test Result

Test Method for Antibacterial Finishes on Textile Materials: Assessment of (AATCC TM100-2019)

Test specimen: As received

Test bacteria: *Staphylococcus aureus* (ATCC 6538)

Tested Specimen	Bacterial count (number of bacteria per sample) over contact period		Result: Percent reduction of bacteria	Specified requirement	Comment
	0 hour	30 minutes*			
As received	1.95 x 10 ⁵	1.68 x 10 ³	99.22%	/	/
Untreated control / Viability control	2.11 x 10 ⁵	2.14 x 10 ⁵	/	/	/

Test bacteria: *Klebsiella pneumoniae* (ATCC 4352)

Tested Specimen	Bacterial count (number of bacteria per sample) over contact period		Result: Percent reduction of bacteria	Specified requirement	Comment
	0 hour	30 minutes*			
As received	1.28 x 10 ⁵	1.80 x 10 ³	98.73%	/	/
Untreated control / Viability control	1.49 x 10 ⁵	1.42 x 10 ⁵	/	/	/

Note: The untreated control sample is standard antimicrobial test viability control fabric from International Antimicrobial Council.

Remarks:

- 1 The number of square swatches (3.8 cm x 3.8 cm) used per jar: 4
- 2 Sterilization of samples by autoclave: No
- 3 Culture medium used for bacterial culture preparation: Nutrient broth
- 4 Diluent used for inoculum dilution: 1:20 Nutrient broth with 0.05% Triton X-100
- 5 Neutralizing solution: Dey Engley Neutralizing broth
- 6 * Contact period was changed to 30 minutes as per the client's request
- 7 Percent (%) reduction of bacteria = $100(B - A)/B$, where:
 A = the number of bacteria recovered from the inoculated treated test specimen swatches in the jar incubated over the 30 min contact period
 B = the number of bacteria recovered from the inoculated untreated test specimen swatches in the jar incubated over the 30 min contact period

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Quantitative Determination of Antibacterial Finishes on Textile Materials (IACM0330 AATCC 100)

Test specimen: As received

Test bacteria: *Staphylococcus aureus* (ATCC 6538)

Tested Specimen	0 hour		24 hours		% of Reduction	Log Reduction
	Bacteria count, CFU/g	Bacteria count after Log	Bacteria count, CFU/g	Bacteria count after Log		
As received	1.84 x 10 ⁵	5.26	575	2.76	>99.99%	5.44
Viability Control fabric	1.98 x 10 ⁵	5.30	1.57 x 10 ⁸	8.20	/	/

Test bacteria: *Klebsiella pneumoniae* (ATCC 4352)

Tested Specimen	0 hour		24 hours		% of Reduction	Log Reduction
	Bacteria count, CFU/g	Bacteria count after Log	Bacteria count, CFU/g	Bacteria count after Log		
As received	1.37 x 10 ⁵	5.14	1.54 x 10 ³	3.19	>99.99%	4.56
Viability Control fabric	1.69 x 10 ⁵	5.23	5.65 x 10 ⁷	7.75	/	/

Remarks:

- 1 Sterilization of samples: No
- 2 Neutralizing solution: D/E Neutralizing broth
- 3 Recovery of bacteria: By plate count method on Mannitol Salts Agar (*S. aureus*) / Nutrient Agar (*K. pneumoniae*)
4. Percent (%) reduction = ((C-B) x100) /A
 Log₁₀ reduction =Log₁₀(C) – Log₁₀(B)
 where: B = CFU/g recovered from the treated sample after 24-hour contact
 C = CFU/g immediately recovered from the treated sample T₀

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Sample Photo



End of Report

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