

EMSL Analytical, Inc.
Microbiology Special Projects Division
5950 Fairbanks North Houston Road
Houston, TX 77040
(713) 686-3635 Fax (713) 686-3645

Certificate of Analysis

Client: ZShield24 LLC
1613 Main St Lake Como, NJ 07714

Contact: Michael R Martin

Project: USP<62> Microbiological Examination of Non-Sterile Products
Bioburden by Contact Plate ZTex24 Fabric Protective Coating

EMSL NO: 152306647

Start date: October 13, 2023 **Report Date:** October 28, 2023

Experimental Summary:

Four samples were received in the lab on October 25, 2023 for bioburden testing using contact plates. The samples were cultured using contact plates containing Tryptic Soy Agar with lecithin and tween for Aerobic Bacteria Counts and Malt Extract Agar with 0.01% chloramphenicol for fungal counts. The TSA plates were examined after 24 and 72 hours of incubation at 35oC. The fungal plates were incubated at 25oC and examined at seven days. Each contact plate equals approximately 0.332 decimeters. The raw counts were converted to CFU/dm³.

Experimental Results:

Plate Counts:

Sample #	Sample Description	Bacterial counts		Yeast & Mold Counts	
		Raw count	CFU/dm ³	Raw Count	CFU/dm ³
152306647-0001	Control	22	66	22	66
152306647-0002	Treated-1	1	3	0	<3
152306647-0003	Treated-2	3	9	0	<3
152306647-0004	Treated-3	2	6	0	<3

All counts expressed in colony-forming units per square decimeter of sample (CFU/dm³)

Analytical sensitivity = 3 CFU/ dm³

Respectfully submitted by:



Terri Lawrence
Microbiology Lab Manager