



Violux Ultraviolet

Antimicrobial Evaluation of Violux UV Treated Articles

Test Method Details

Test Method	Modified ASTM E2197
Test Organism	Methicillin-Resistant <i>Staphylococcus aureus</i> (ATCC #33591) (MRSA)
Test Solution	Phosphate Buffered Saline (1x) with Serum (5%)
Test Discs	20mm diameter magnetic stainless steel discs
Inoculum Applied to Test Disc	0.010 mL applied to each disc and spread to within 1 mm of edges, then dried
Recovery Solution	5 mL Phosphate Buffered Saline (1x) with Triton X-100 surfactant (0.1%)
Measuring Method of Number of Viable Bacteria	Dilution Plate Method onto nutritive Tryptic Soy Agar (1x)

Results – MRSA disc testing

Modified ASTM E2197: Standard Quantitative Disk Carrier Test Method				
Number of Replicate Experiments		2		
Number of Replicate Discs per Experiment		3		
Exposure Device and Time	Average Bacterial Burden (CFU/disc)	Average Log Bacterial Burden (CFU/disc)	Log Reduction (vs Control)	Percent Reduction (vs Control)
Control	2.66E+06	6.42	--	--
Luma (16W)- 2 minutes	6.33E+02	2.80	3.62	99.98%
Luma (16W)- 3 minutes	1.25E+02	2.10	4.33	>99.99%
Luma Pro (32W)- 1 minute	6.33E+02	2.80	3.62	99.98%
Luma Pro (32W)- 2 minutes	1.67E+02	2.22	4.20	99.99%