



Violux Ultraviolet

Antimicrobial Evaluation of Violux UV Treated Articles

Test Method Details

Test Method	Modified ASTM E2197
Test Organism	<i>Pseudomonas aeruginosa</i> (ATCC #27853)
Test Solution	Phosphate Buffered Saline (1x) with Serum (5%)
Test Discs	20mm diameter magnetic stainless steel discs with 0.10 mL Tryptic Soy Agar overlay
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 – Pseudomonas 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	7.38E+06	6.87	--	--
Luma (16W)- 2 minutes	2.62E+03	3.42	3.45	99.96%
Luma (16W)- 3 minutes	4.85E+03	3.69	3.18	99.93%
Luma Pro (32W)- 1 minute	8.93E+03	3.95	2.92	99.88%
Luma Pro (32W)- 2 minutes	9.58E+01	1.98	4.89	>99.99%