



Violux Ultraviolet

Antimicrobial Evaluation of Violux UV Treated Articles

Test Method Details

Test Method	Modified ASTM E2197
Test Organism	OC43 Human Coronavirus
Test Solution	Eagle's Modified Medium with 2% Fetal Bovine Serum
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 at room temperature
Recovery Solution	10 mL modified SCDLP Buffer
Measuring Method of Number of Viable Virus	Dilution Plate Method onto Rhabdomyosarcoma cells, viral particles were determined using an anti-OC43 monoclonal antibody. Foci were then counted giving Foci Forming Units (FFU).

Results – OC43 disc testing

Modified ASTM E2197: Standard Quantitative Disk Carrier Test Method				
Number of Replicate Experiments		1		
Number of Replicate Discs per Experiment		2		
Exposure Device and Time	Average Viral Burden (FFU/disc)	Average Log Viral Burden (FFU/disc)	Log Reduction (vs Control)	Percent Reduction (vs Control)
Control	1.89E+05	5.28	--	--
Luma (16W)- 1.5 minutes	0.00E+00	0.00	5.28	100.00%
Luma Pro (32W)- 1 minute	0.00E+00	0.00	5.28	100.00%