

VIRAL CLEAN TECHNOLOGIES LLC

TEST REPORT

SCOPE OF WORK

ASTM E3135-18 Standard Practice for Determining Antimicrobial Efficacy of Ultraviolet Germicidal Irradiation Against Microorganisms on Carriers with Simulated Soil

PRODUCT

UV Light Fixture

REPORT NUMBER

104834936COL-001

ISSUE DATE

29-October-2021

PAGES

3

DOCUMENT CONTROL NUMBER

GFT-OP-10h (6-July-2017)

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MICROBIOLOGICAL PERFORMANCE TEST REPORT

Client		Viral Clean Technologies LLC 1865 Falls Pointe Lane Commerce Township, MI 48382 USA
Project No.		G104834936
Sample	Product	UV Light Fixture
	Model	Excimer lamp
	Identification No.	COL2110251022-001
	Date Received	October 25, 2021
	Condition	Good
	Production or Prototype	Prototype
Procedural	Engineer	Amanda Mastronicolas
	Reviewer	Nicholas Unger
	Dates Tested	October 27, 2021 – October 28, 2021
	Report Date	October 29, 2021
	Test Temperature and Relative Humidity	22°C, 43% RH
Standard	ASTM E3135-18 Standard Practice for Determining Antimicrobial Efficacy of Ultraviolet Germicidal Irradiation Against Microorganisms on Carriers with Simulated Soil	

Test Method Summary: Samples were received directly from the client on October 25th, 2021 and logged under COL2110251022-001. Each of the materials (Formica, steel, and polycarbonate) were placed 8 ft 6 in below the unit. 0.3 mL of PHI-X174 were added to each of the materials and the UV light was turned on. The samples were removed from their respective at time of 15 and 45 minutes and placed into sample tubes. Each sample was then diluted to the appropriate dilutions and plated. The samples were plated using a nutrient agar double layer with e.coli. The counts for the plates were taken the following day. The percent reduction is calculated by taking the initial CFU/mL count of the samples under the light in comparison to the amount of organism found on the washers in the control group.

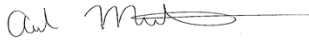
Photo of Unit:



MICROBIOLOGICAL PERFORMANCE TEST REPORT**Summary of Results:**

Phi X-174 Percent Reduction	
Material	% Reduction
Formica (15 minutes)	99.98%
Formica (45 minutes)	99.99%
Steel (15 minutes)	99.99%
Steel (45 minutes)	99.99%
Polycarbonate (15 minutes)	99.99%
Polycarbonate (45 minutes)	99.99%

Test Performed by:

Amanda Mastronicolas
Microbiology, team lead
Columbus Office

Report Approved by:

Nicholas Unger
Lead Engineer
Columbus Office