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Ultra-Tech Lighting LLC

EFFICACY TEST REPORT

SCOPE OF WORK
Non-standardized Test Method: Microbial Reduction Rate Test

PRODUCT – Sterile Bright Units

MODEL – STRL-PU-250WUV Non-Ozone

REPORT NUMBER
104732049COL-001

ISSUE DATE
June 30, 2021

PAGES 6

DOCUMENT CONTROL NUMBER
GFT-OP-10h (6-July-2017)
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SECTION 1 EFFICACY STUDY SUMMARY

Client		**Ultra-Tech Lighting LLC PO Box 556 Closter, NJ 07624 USA**
Project No.		G104732049
Sample	Product	Sterile Bright Unit
	Model	STRL-PU-250WUV Non-Ozone
Procedural	Engineer	Leta Myers
	Reviewer	Lee Moomaw
	Dates Tested	7/22/21 – 7/23/21
	Report Date	7/27/21
Standard	Non-standardized Test Method: Microbial Reduction Rate Test	
Testing Facility	Intertek Microbiological Laboratory 1717 Arlingate Ln. Columbus, OH 43228 United States	

SECTION 2 TEST PROCEDURE

The test chamber measured 10'x10'x10' (1000 cubic ft) room and a microbial suspension was aspirated into the chamber. A mixing fan was turned on for the duration of test along with the blower at full volume. Air samples were taken from the test chamber once the unit was turned on and sampling was taken every 15 minutes over a period of 2 hours and then plated. The process was then repeated without the test unit in the chamber to provide the natural decay results. All plates were incubated overnight and viral growth on the test plate was compared to that of the natural decay control.

Air sampling took place using an SKC BioStage Single-stage impactor for 30 seconds at 12L/min (.424 cubic feet/min). Results below represent the percent reduction at 120 minutes.

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SECTION 3 ORGANISMS

Organism Name	Organism Type	ATCC Number	Source
Staphylococcus Epidermidis	Bacteria	12228	ATCC

SECTION 3 EQUIPMENT

Equipment Type	Equipment No.	Calibration Due Date
Micropipette	CE 2587	6/2/2022
Incubator	CE 2381	7/9/2022
Incubator	CE2427	7/9/2022
Balance	CE 1882	7/9/2022
Autoclave	CE 2376	Verify Before Use
Centrifuge	CE 2382	For Reference Only
Chamber	CE 1149	For Reference Only
Collision Nebulizer	CE 1139	For Reference Only
Refrigerator	CE 1157	For Reference Only
Pump	CE 1137	For Reference Only
Stopwatch	SW015	01/25/2022
Ambient Temperature/RH	CE 1179	For Reference Only

SECTION 4 MEDIA AND REAGENTS

Type	Manufacturer	Lot No	Expiration Date
Nutrient Agar	DIFCO	9346039	10/31/2024
PBS	Fisher	192736	08/01/2022

SECTION 5 SAMPLE ACQUISITION

Acquisition method	Shipped to Intertek
Description	Sterile Bright Unit
Model Number	STRL-PU-250WUV Non-Ozone
Arrival date	June 30, 2021
Condition	New
Sample Identification No.	COL2106301154-001
Development Level	Production

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SECTION 6 SUMMARY OF RESULTS

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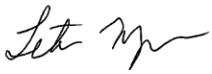
Organism Type	Bacteria
Temperature Min/Max	20°C (68°F)
Humidity Min/Max	45% RH
Organism Name	*S. epidermidis*
Percent Reduction	99.9%

Completed by:	Leta Myers	Reviewed by:	Lee Moomaw
Title:	Microbiology Tech I	Title:	Engineering Team Leader
Signature:		Signature	
Date	27-July-2021	Date:	

Annex A Test Results:

Test Parameter		Test Result	Natural Decay Result	Units
Organism	Species	*S. epidermidis*		---
	ATCC No.	12228		---
	Challenge Concentration	8.8×10^8		CFU/mL
Samples (15min.)	0	TNTC (2628)	TNTC (2628)	CFU
	15	<1	TNTC (2628)	CFU
	30	<1	TNTC (2628)	CFU
	45	<1	TNTC (2628)	CFU
	60	<1	TNTC (2628)	CFU
	75	<1	TNTC (2628)	CFU
	90	<1	TNTC (2628)	CFU
	105	<1	TNTC (2628)	CFU
	120	<1	TNTC (2628)	CFU
Results	--	99.9%		Reduction

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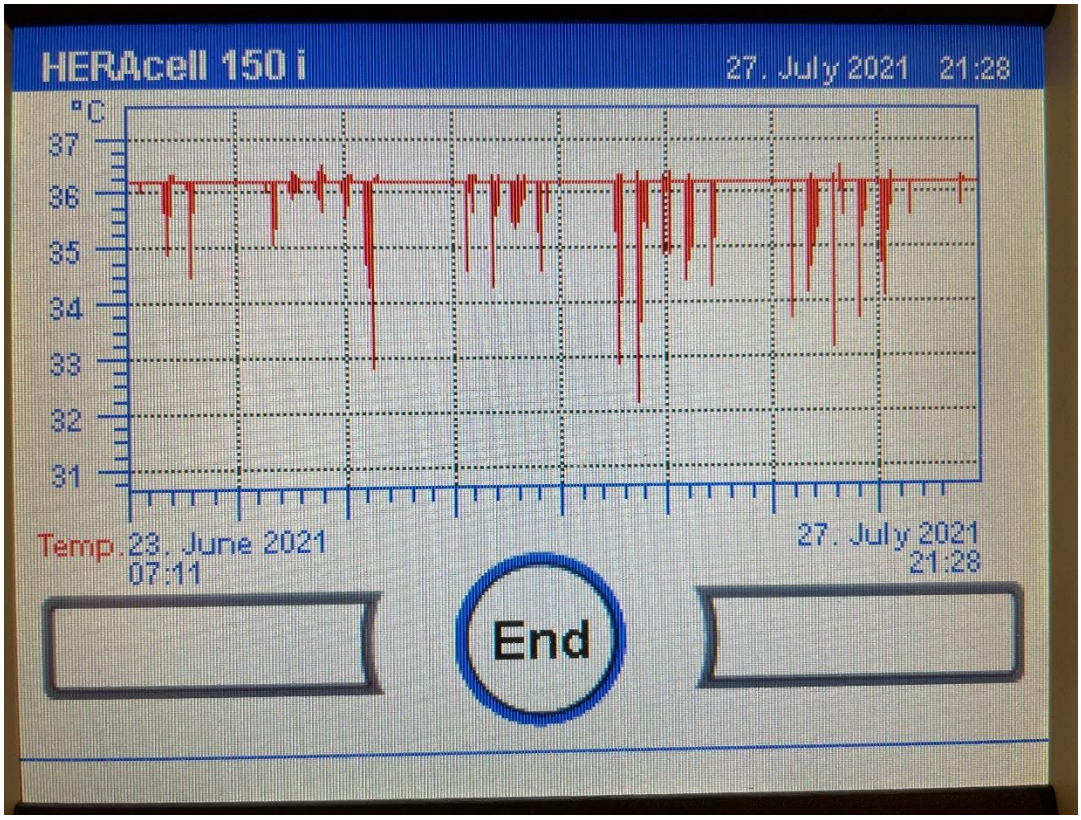
Annex B: Incubation Data



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