



EMSL Analytical, Inc.

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560
919-465-3900/919-465-3950
raleighlab.com

EMSL Order: 292007449
Customer ID: UVIN42
Customer PO:
Project ID:

Attention: Nick Medendorp
UV Innovators
401 Harrison Oaks Blvd, Suite 230
Cary, NC 27513

Phone: 919-608-2947
Email: nick@uvinnovators.com

Project: P aeruginosa 7-22-20

Report Date: 7/23/2020

Revision: 0.00

Antimicrobial Efficacy of Ultraviolet Germicidal Irradiation (Test Method ASTM E3135)

Number of test conditions: 3
Date Incolulum created: 7/22/2020
Date Samples treated: 7/22/2020
Organism: Pseudomonas aeruginosa ATCC 27853
Incubation Temperature: 35
Incubation Period: 24-48 hours
Media, Lot & Expiration: TSA 002263, 9/21/2020
Counted by & Date: Goldstein, 7/23/20

NOTES:

NC= Negative Control
PC Positive Control

	Raw Counts					
Test Name:	NC1	NC2	NC3	PC1	PC2	PC3

Dilution	NC1	NC2	NC3	PC1	PC2	PC3
10 ⁻¹	0	0	0	ND	ND	ND
10 ⁻²	ND	ND	ND	TNTC	TNTC	TNTC
10 ⁻³	ND	ND	ND	TNTC	TNTC	TNTC
10 ⁻⁴	ND	ND	ND	TNTC	TNTC	TNTC
10 ⁻⁵	ND	ND	ND	78	80	57
10 ⁻⁶	ND	ND	ND	7	11	6
10 ⁻⁷	ND	ND	ND	1	6	0

Positive Control Average: 7,166,666.67
STD: 12.74

ND= Not Done, TNTC=Too numerous to count

Alan Goldstein
Laboratory Manager
or Other Approved Signatory

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Notes:
T1=1 second
T2=2 seconds
T3=4 seconds

Test Name:	T1a	T1b	T1c	T2a	T2b	T2c	T3a	T3b	T3c
mJ/cm2 :	14.70	14.70	14.71	29.41	29.40	29.40	58.74	58.67	58.64

Dilution RAW COUNTS

Dilution	T1a	T1b	T1c	T2a	T2b	T2c	T3a	T3b	T3c
10 ⁻¹	ND	ND	ND	ND	ND	ND	ND	ND	ND
10 ⁻²	3	167	35	12	40	13	19	1	32
10 ⁻³	0	21	1	0	2	1	3	1	1
10 ⁻⁴	0	0	0	0	0	0	0	0	0
10 ⁻⁵	0	0	0	0	0	0	0	0	0
10 ⁻⁶	0	0	0	0	0	0	0	0	0
10 ⁻⁷	0	0	0	0	0	0	0	0	0

POSITIVE CONTROL AVERAGE: 7,166,666.67

	T1	T2	T3
AVERAGE DOSE:	14.7	29.4	58.7
AVERAGE COUNT:	6,833.33	2,166.67	1,733.33
STD:	86.93	15.89	15.57
% KILLED:	99.90	99.97	99.98
LogR:	3.02	3.52	3.62

% Kill=(positive control count-test count)/positive control count*100

LogR = (log10 positive control count)-(log10 test count)

ND= Not Done, TNTC=Too numerous to count

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