

EMSL Analytical, Inc.

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

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

Project: P aeruginosa 7-22-20

Report Date: 7/23/2020

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

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

> > Revision: 0.00

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

NOTES:

NC=

PC

Negative Control

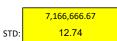
Positive Control

Num	ber of test	conditions:	3			
D	ate Incolulu	um created:	7/22/2020			
	Date Samp	les treated:	7/22/2020			
		Organism:	Pseudomon	as aeruginos	a ATCC 278	53
Incubation Temperature:			35			
	Incuba	tion Period:	24-48 hours			
Media, Lot & Expiration:			TSA 002263	, 9/21/2020		
	Counted	l by & Date:	Goldstein, 7	/23/20		
Raw Counts						
Test Name:	NC1	NC2	NC3	PC1	PC2	PC3

Dilution

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



ND= Not Done, TNTC=Too numerous to count

alan Goldstein

Alan Goldstein Laboratory Manager or Other Approved Signatory

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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:		
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									
10 ⁻¹	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 Т3 AVERAGE DOSE: 14.7 29.4 58.7 AVERAGE COUNT 6,833.33 2,166.67 1,733.33 86.93 15.89 15.57 STD 99.90 99.97 99.98 % KILLED: 3.02 3.52 3.62 LogR:

% 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

Alan goldstein

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