



EMSL Analytical, Inc.

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

EMSL Order: 292009030
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
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Project: A. baumannii 9/2/20

Report Date: 9/4/2020

Revision: 0.00

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

Number of test conditions: 4
Date Inoculum created: 9/2/2020
Date Samples treated: 9/2/2020
Organism: *Acinetobacter baumannii*
Incubation Temperature: 35
Incubation Period: 24-48 hours
Media, Lot & Expiration: TSA 105060 10/5/20
Counted by & Date: Goldstein, 9/4/20

NOTES:

NC= Negative Control
PC Positive Control

Dry time 80 minutes
No growth on environmental controls

	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	24	39	33
10 ⁻⁶	ND	ND	ND	2	1	1
10 ⁻⁷	ND	ND	ND	0	1	1

Positive Control Average: 3,200,000.00
STD: 7.55

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
T4=8 seconds

Test Name:	T1a	T1b	T1c	T2a	T2b	T2c	T3a	T3b	T3c	T4a	T4b	T4c
mJ/cm ² :	13.96	13.97	13.97	28.28	28.29	28.29	56.88	56.84	56.81	113.50	113.60	113.70

Dilution	RAW COUNTS											
	TNTC	129	52	4	10	ND*	126	71	23	1	0	41
10 ⁻¹	44	18	6	1	4	6	16	15	4	1	0	2
10 ⁻²	6	0	0	0	0	1	0	0	0	0	0	0
10 ⁻³	0	0	0	0	0	0	0	0	0	0	0	0
10 ⁻⁴	0	0	0	0	0	0	0	0	0	0	0	0
10 ⁻⁵	0	0	0	0	0	0	0	0	0	0	0	0
10 ⁻⁶	0	0	0	0	0	0	0	0	0	0	0	0
10 ⁻⁷	0	0	0	0	0	0	0	0	0	0	0	0

ND*=Sample contaminated and unable to accurately count.

POSITIVE CONTROL AVERAGE: 3,200,000.00

	T1	T2	T3	T4
AVERAGE DOSE:	13.967	28.287	56.843	113.600
AVERAGE COUNT:	2,266.67	366.67	733.33	140.00
STD:	19.43	2.52	51.54	23.39
% KILLED:	99.929	99.989	99.977	99.996
LogR:	3.15	3.94	3.64	> 5.99

% 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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