

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: MRSA 7-21-20 test

Report Date: 7/23/2020

EMSL Order: 292007488 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				
Date Incolulum created:			7/21/2020				
	Date Samp	les treated:	7/21/2020				
		Organism:	Staphlococcus aureus (MRSA) BAA 1717				
Inc	ubation Te	mperature:	35				
	Incuba	tion Period:	24-48 hours				
M	ledia, 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	TNTC	TNTC	TNTC
10 ⁻⁶	ND	ND	ND	90	99	76
10 ⁻⁷	ND	ND	ND	7	7	14

Positive Control Average

88,333,333.33 STD: 11.59

ND= Not Done, TNTC=Too numerous to count

alan Goldstein

Alan Goldstein Laboratory Manager or Other Approved Signatory

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

Number of test conditions:	
Date Incolulum created:	44033
Date Samples treated:	
Organism:	Staphlococcus aureus (MRSA) BAA 1717
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 :	14.34	14.33	14.33	28.89	28.89	28.87	58.01	57.91	57.88
Dilution	Dilution RAW COUNTS								
10-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
10 ⁻²	TNTC	TNTC	TNTC	71	TNTC	TNTC	8	134	96
10 ⁻³	58	316	TNTC	9	56	51	0	14	4
10 ⁻⁴	5	32	30	0	5	2	0	3	0
10 ⁻⁵	0	1	2	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

88,333,333.33 POSITIVE CONTROL AVERAGE:

T1 T2

	T1	T2	Т3
AVERAGE DOSE:	14.3	28.9	57.9
AVERAGE COUNT:	223,333.33	38,666.67	7,933.33
STD:	15.04	25.81	64.63
% KILLED:	99.75	99.96	99.99
LogR:	2.60	3.36	4.05

% 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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