



EMSL Analytical, Inc.

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

EMSL Order: 292010682
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: Eschericia coli ATCC 25922

Report Date: 10/20/2020

Revision: 0.00

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

Number of test conditions: 4
Date Incolulum created: 10/19/2020
Date Samples treated: 10/19/2020
Organism: Eschericia coli ATCC 25922
Incubation Temperature: 35
Incubation Period: 24
Media, Lot & Expiration: TSA Lot # 134657 Exp. 11/23/20
Counted by & Date: Goldstein 10/20/20

NOTES:

NC= Negative Control
PC Positive Control

Dry time 40 minutes

No growth on environmental controls

Raw Counts

Test Name:	NC1	NC2	NC3	PC1	PC2	PC3
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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	108	122	232
10 ⁻⁶	ND	ND	ND	12	13	17
10 ⁻⁷	ND	ND	ND	0	3	1

Positive Control Average

15,400,000.00
STD: 67.91

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/cm2 :	13.90	13.89	13.90	28.10	28.10	28.11	56.46	56.49	56.47	113.50	112.30	112.60
Dilution	RAW COUNTS											
10 ⁻¹	7	20	0	22	1	81	34	4	0	9	16	0
10 ⁻²	0	1	0	4	0	6	4	0	0	0	0	0
10 ⁻³	0	0	0	0	0	1	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

POSITIVE CONTROL AVERAGE: 15,400,000.00

	T1	T2	T3	T4
AVERAGE DOSE:	13.897	28.103	56.473	112.800
AVERAGE COUNT:	90.00	346.67	126.67	83.33
STD:	10.15	41.48	18.58	8.02
% KILLED:	99.999	99.998	99.999	99.999
LogR:	5.23	4.65	5.08	5.27

% 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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