



EMSL Analytical, Inc.

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

EMSL Order: 292011288
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: Salmonella typhimurium ATCC 14028

Report Date: 11/6/2020

Revision: 0.00

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

Number of test conditions: 3
Date Incolulum created: 11/5/2020
Date Samples treated: 11/5/2020
Organism: Salmonella typhimurium ATCC 14028
Incubation Temperature: 35
Incubation Period: 24
Media, Lot & Expiration: TSA Lot # 134647 Exp. 11/23/20
Counted by & Date: Goldstein 11/6/20

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

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	TNTC	TNTC	TNTC
10 ⁻⁶	ND	ND	ND	22	30	30
10 ⁻⁷	ND	ND	ND	1	4	5

Positive Control Average: 27,333,333.33
STD: 4.62

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/cm ² :	13.89	13.88	13.88	28.02	28.01	28.01	56.29	56.24	56.22
Dilution	RAW COUNTS								
10 ⁻¹	TNTC	TNTC	TNTC	TNTC	TNTC	TNTC	63	63	68
10 ⁻²	64	173	177	22	108	38	9	2	6
10 ⁻³	8	13	9	6	13	3	0	0	0
10 ⁻⁴	0	2	1	0	1	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	ND	ND	ND	ND	ND	ND	ND	ND	ND

POSITIVE CONTROL AVERAGE: 27,333.333.33

	T1	T2	T3
AVERAGE DOSE:	13.883	28.013	56.250
AVERAGE COUNT:	13,800.00	5,600.00	646.67
STD:	64.12	45.74	2.89
% KILLED:	99.950	99.980	99.998
LogR:	3.30	3.69	4.63

% 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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