



EMSL Analytical, Inc.

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

EMSL Order: 292008829
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: E. faecalis 8/29/20

Report Date: 8/29/2020

Revision: 0.00

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

Number of test conditions: 4
Date Incolulum created: 8/27/2020
Date Samples treated: 8/27/2020
Organism: Enterococcus faecalis ATCC 29212
Incubation Temperature: 35
Incubation Period: 24-48 hours
Media, Lot & Expiration: TSA 105060 10/5/20
Counted by & Date: Goldstein, 8/29/20

NOTES:

NC= Negative Control
PC Positive Control

Dry time 40 minutes

No growth on environmental controls
1 flat grey colony of negative control plate C1.

Raw Counts

Test Name:

NC1	NC2	NC3	PC1	PC2	PC3
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Dilution

10 ⁻¹						
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	31	42	25
10 ⁻⁷	ND	ND	ND	2	5	0

Positive Control Average

32,666,666.67
STD: 8.62

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
T4=8 seconds

Test Name:	T1a	T1b	T1c	T2a	T2b	T2c	T3a	T3b	T3c	T4a	T4b	T4c
mJ/cm2 :	13.98	13.97	13.97	28.21	28.20	28.20	56.75	56.72	56.73	113.50	113.40	113.30

Dilution	RAW COUNTS											
	T1a	T1b	T1c	T2a	T2b	T2c	T3a	T3b	T3c	T4a	T4b	T4c
10 ⁻¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10 ⁻²	TNTC	13	63	1	0	0	1	4	0	0	0	0
10 ⁻³	32	2	5	0	0	0	0	1	0	0	0	0
10 ⁻⁴	2	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

POSITIVE CONTROL AVERAGE: 32,666,666.67

	T1	T2	T3	T4
AVERAGE DOSE:	13.973	28.203	56.733	113.400
AVERAGE COUNT:	13,000.00	33.33	166.67	0.00
STD:	16.52	0.58	2.08	0.00
% KILLED:	99.960	100.000	99.999	100.000
LogR:	3.40	5.99	5.29	> 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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