

TEST REPORT

DATE: 11-01-2024

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TEST NUMBER: 0311814

CLIENT	NoTrax USA, Inc.
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TEST METHOD CONDUCTED	ASTM E2149 Standard Test Method For Determining The Antimicrobial Activity Of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Blue Rubber Mat/526 NBR

GENERAL PRINCIPLE

ASTM 2149-12 was used to quantitatively assess the antibacterial activity of these samples. The challenge bacteria specified was *E. coli* 25922. The contact time specified was 24 hours.

TEST RESULTS:

E. coli 25922

Sample	Avg. 0 hr Control CFU	Avg. 24 hr Treated CFU	Log Reduction	Percent Reduction
Blue Rubber Mat/526 NBR	3.0x10 ⁵	1.0x10 ²	3.47	99.97

Discussion

Under these conditions, the sample yielded 3 logs (99.97%) when challenged against *E. coli*.

APPROVED BY:



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Formula for Log reduction:

Determine Log ($x \cdot 10^a$) of control samples

Determine Log ($x \cdot 10^a$) of treated samples

Determine geometric mean of control samples:

Log values of control samples: $b_1, b_2, b_3, \dots, b_n$

Mean = $(b_1 \cdot b_2 \cdot b_3 \cdot \dots \cdot b_n)^{1/n}$

Determine geometric mean of treated samples:

Log values of treated samples: $c_1, c_2, c_3, \dots, c_n$

Mean = $(c_1 \cdot c_2 \cdot c_3 \cdot \dots \cdot c_n)^{1/n}$

Log reduction = geometric mean of the control samples – geometric mean of the treated samples

Where:

x = value of samples

a = exponent value

b = log value of control samples

c = log value of treated samples

n = number of log values in set

Formula for Percent Reduction:

$(1 - 10^{-\text{log reduction}}) \times 100$

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