

# FINAL REPORT

MBC Screening Against MRSA

Order Number: 151603921

**PREPARED FOR**

Nature's Rite, LLC

8122 Uzita Dr.

Sarasota, FL 34240

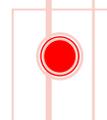
Jason Dobranic, Ph.D., Vice-President of Microbiology & Life Sciences

6/9/2016

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## CERTIFICATE OF ANALYSIS

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**CLIENT:** NATURE'S RITE, LLC

**CONTACT:** STEVEN FRANK

**PROJECT:** MBC SCREENING AGAINST MRSA

**PRODUCT:** NATURE'S RITE DIGESTIVE URINARY TONIC (DUT)

**TEST BACTERIA:** METHICILLIN-RESISTANT *STAPHYLOCOCCUS AUREUS* (MRSA)

**SAMPLE RECEIVED:** 6/7/2016

**REPORT DATE:** 6/9/2016

**EXPERIMENTAL SUMMARY:**

An MBC screening was performed against MRSA using Nature's Rite Digestive Urinary Tonic and the client's submitted test protocol. Testing was performed in triplicate using 5-milliliter (mL) portions of client's product and 5-mL portions of de-ionized water (DIW) serving as positive controls. Each portion was inoculated with 100 microliters ( $\mu\text{L}$ ) of a  $1 \times 10^8$  suspension of MRSA and incubated for 60 minutes at  $37^\circ\text{C}$ . Plate counts were performed after one hour from test and control tubes.

**Experimental Results:**

Tube:	Concentration at 60 minutes (CFU/mL)	Log	Log Reduction	Percent Reduction
Test-1	<50	<1.7	>6.33	>99.9999%
Test-2	<50	<1.7		
Test-3	<50	<1.7		
Control-1	$10.45 \times 10^7$	8.0		
Control-2	$10.8 \times 10^7$	8.0		
Control-3	$10.75 \times 10^7$	8.0		
Control average	$10.67 \times 10^7$	8.0		

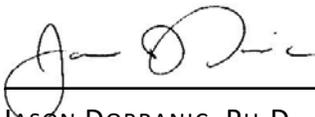
CFU: Colony forming Units

Original inoculum culture =  $2.2 \times 10^8$  CFU/mL



**Conclusions/Observations:**

The Nature's Rite Digestive Urinary Tonic provided greater than 99.9999% reduction of the MRSA bacteria after 60 minutes of contact time.



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