

**Staphylococcus aureus, Strain M0102 (MRSA)**

**Catalog No. NR-41878**

**Product Description:** *Staphylococcus aureus* (*S. aureus*), strain M0102 was isolated in 2003 from blood of an adult male. *S. aureus*, strain M0102 is a methicillin-resistant *S. aureus* (MRSA) strain.

**Lot<sup>1</sup>: 62138718**

**Manufacturing Date: 31OCT2013**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Motility (wet mount) <sup>3</sup> Oxacillin resistance <sup>3</sup> Hemolysis <sup>2</sup> Biochemical characterization: Analytical profile index (API Staph <sup>®</sup> ) <sup>4</sup> Catalase	Gram-positive cocci Report results  Report results Resistant Report results  Consistent with <i>S. aureus</i> Positive	Gram-positive cocci Circular, low convex, entire, smooth and gray (Figure 1)  Non-motile Resistant Non-hemolytic  Consistent with <i>S. aureus</i> Positive
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1500 base pairs) Riboprinter <sup>®</sup> Microbial Characterization System	Consistent with <i>S. aureus</i> Consistent with <i>S. aureus</i>	Consistent with <i>S. aureus</i> Consistent with <i>S. aureus</i>
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-41878 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 24 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown 24 hours at 37°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

<sup>2</sup>24 hours at 37°C and aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

<sup>3</sup>24 hours at 30°C and aerobic atmosphere on Mueller Hinton agar containing 6 µg/mL oxacillin and 4% NaCl (Oxacillin Screen Agar BBL™ 221952)

<sup>4</sup>The API Staph<sup>®</sup> identification includes a test for lysostaphin resistance that was not completed for NR-41878. NR-41878 is identified as *S. aureus* by the API Staph<sup>®</sup> test regardless of the lysostaphin resistance test results.

**Figure 1**



**Date:** 15 FEB 2014

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

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