

Staphylococcus aureus, Strain HI111 (MRSA)

Catalog No. NR-30549

Product Description: *Staphylococcus aureus* (*S. aureus*), strain HI111 was isolated from an abscess on the axilla of a 12-year-old male. *S. aureus*, strain HI111 was deposited as a methicillin-resistant *S. aureus* (MRSA) strain. This strain is also reported to be resistant to oxacillin, erythromycin and penicillin and sensitive to tetracycline, clindamycin, vancomycin, ciprofloxacin, rifampin, linezolid and ceftriaxone.

Lot¹: 62138707

Manufacturing Date: 07NOV2013

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Oxacillin resistance ³ Hemolysis ² Biochemical characterization: Analytical profile index (API Staph [®]) ⁴ 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 cream (Figure 1) Non-motile Resistant β-hemolytic Consistent with <i>S. aureus</i> Positive
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 910 base pairs) Riboprinter [®] 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>
Viability (post-freeze)²	Growth	Growth

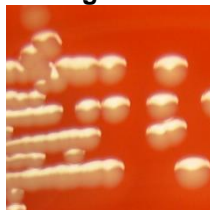
¹NR-30549 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 24 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown 24 hours at 37°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

²24 hours at 37°C and aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

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

⁴The API Staph[®] identification includes a test for lysostaphin resistance that was not completed for NR-30549. NR-30549 is identified as *S. aureus* by the API Staph[®] 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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