

Certificate of Analysis for NR-41894

Staphylococcus aureus, Strain M1359 (MRSA)

Catalog No. NR-41894

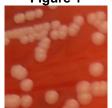
Product Description: *Staphylococcus aureus* (*S. aureus*), strain M1359 was isolated in 2004 from blood of an adult male. *S. aureus*, strain M1359 is a methicillin-resistant *S. aureus* (MRSA) strain.

Lot¹: 62261478 Manufacturing Date: 18DEC2013

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

¹NR-41894 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 25 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 19 hours at 37°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

Figure 1



Date: 20 MAR 2014

Signature:

Title: Technical Manager, BEI Authentication or designee

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²23 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-41894. NR-41894 is identified as *S. aureus* by the API Staph® test regardless of the lysostaphin resistance test results.