

Staphylococcus aureus, Strain WKZ-1 (MSSA)

Catalog No. NR-28984

Product Description:

Staphylococcus aureus (*S. aureus*), strain WKZ-1 was isolated from a blood culture from a male infant with Pierre Robin syndrome who was undergoing treatment for a respiratory infection following intubation. *S. aureus*, strain WKZ-1 is a methicillin-sensitive *S. aureus* (MSSA) strain. NR-28984 lot 70043153 was produced by inoculation of the seed material into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70043153

Manufacturing Date: 31MAR2021

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount) Hemolysis Biochemical characterization Catalase VITEK® MS (MALDI-TOF)	Gram-positive cocci Report results Report results Report results Positive <i>S. aureus</i>	Gram-positive cocci Circular, low convex, entire, smooth and gray (Figure 1) Non-motile β-hemolytic Positive <i>S. aureus</i> (99.9%)
Antibiotic Susceptibility Profile Oxacillin resistance 1 day at 30°C in an aerobic atmosphere on Mueller Hinton agar containing 6 µg per mL oxacillin and 4% NaCl (Oxacillin Screen agar BBL™ 221952)	Sensitive	Sensitive
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> , strain WKZ-1 (GenBank: CP059156.1)	100% sequence identity to <i>S. aureus</i> , strain WKZ-1 (GenBank: CP059156.1)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

Figure 1: Colony Morphology



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03 AUG 2021

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