

Certificate of Analysis for NR-55228

Staphylococcus aureus, Strain AJUL14

Catalog No. NR-55228

Product Description:

Staphylococcus aureus (S. aureus), strain AJUL14 is deposited as a tetracycline-resistant strain derived from S. aureus, strain SH1000 through introduction of plasmid pSK5487M containing the gene tetK (encoding tetracycline resistance protein) and a chloramphenicol resistance gene (cat) for selection. NR-55228 was produced by resuspension of a lyophilized vial of deposited material in Tryptic Soy broth. Broth inoculum was added to Tryptic Soy broth containing 25 μg per mL chloramphenicol and grown for 1 day at 37°C in an aerobic atmosphere. The material from the initial growth was added to Tryptic Soy broth containing 25 µg per mL chloramphenicol, which was grown for 1 day at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed using Tryptic Soy broth or agar containing 25 µg per mL chloramphenicol under propagation conditions unless otherwise noted.

Lot: 70052849 Manufacturing Date: 18MAY2022

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology	Report results	Circular, convex, entire, smooth and yellow (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis	Report results	β-hemolytic
Catalase	Positive	Positive
VITEK® MS (MALDI-TOF)	S. aureus	S. aureus (99.9%)
Antibiotic Susceptibility Profile ¹		
Etest [®] antibiotic test strips		
1 day at 35°C in an aerobic atmosphere on		
Mueller Hinton agar		
Tetracycline	Resistant	Resistant (16 µg per mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	99.9% sequence identity to
(~ 1490 base pairs)	S. aureus, strain SH1000	S. aureus, strain SH1000
	(GenBank: CP059180.1)	(GenBank: CP059180.1) ²
Purity (post-freeze)	Growth consistent with expected	Growth consistent with expected
8 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood		colony morphology
Viability (post-freeze)	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

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²Also consistent with other Staphylococcus species



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Figure 1: Colony Morphology



/Sonia Bjorum Brower/ Sonia Bjorum Brower

30 JAN 2023

Technical Manager or designee, ATCC Federal Solutions

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