

Certificate of Analysis for NR-55238

Staphylococcus aureus, Strain AJUL24

Catalog No. NR-55238

Product Description:

Staphylococcus aureus (S. aureus), strain AJUL24 is deposited as a trimethoprim-resistant strain derived from S. aureus, strain SH1000 through introduction of plasmid pSK5487M containing the antibiotic resistance gene *dfr*K (encoding trimethoprim-resistant dihydrofolate reductase) and a chloramphenicol resistance gene *(cat)* for selection. NR-55238 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: 70052869 Manufacturing Date: 20MAY2022

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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 cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis	Report results	Non-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		
Trimethoprim	Resistant	Resistant (≥ 32 µg per mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	≥ 99% sequence identity to S. aureus, strain SH1000 (GenBank: CP059180.1)	99.9% sequence identity to S. aureus, strain SH1000 (GenBank: CP059180.1) ²
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood		Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

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

²Also consistent with other Staphylococcus species

BEI Resources www.beiresources.org E-mail: contact@beiresources.org Tel: 800-359-7370

Fax: 703-365-2898



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Figure 1: Colony Morphology



/Sonia Bjorum Brower/
_Sonia Bjorum Brower

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Technical Manager or designee, ATCC Federal Solutions

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Tel: 800-359-7370

Fax: 703-365-2898