

**Staphylococcus aureus, Strain AJUL18**

**Catalog No. NR-55232**

**Product Description:**

*Staphylococcus aureus* (*S. aureus*), strain AJUL18 is deposited as a bacitracin-resistant strain derived from *S. aureus*, strain SH1000 through introduction of plasmid pSK5487M containing the gene *bcrABD* (encoding bacitracin resistance protein) and a chloramphenicol resistance gene (*cat*) for selection. NR-55232 was produced by resuspension of a lyophilized vial of deposited material in Tryptic Soy broth. The material from the initial growth was added to Tryptic Soy agar containing 25 µg per mL chloramphenicol 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: 70052857**

**Manufacturing Date: 18MAY2022**

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TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Motility (wet mount) Hemolysis Catalase VITEK® MS (MALDI-TOF)	Gram-positive cocci Report results  Report results Report results Positive <i>S. aureus</i>	Gram-positive cocci Circular, convex, entire, smooth and yellow Non-motile β-hemolytic Positive <i>S. aureus</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>1</sup></b> BD Sensi-Disc™ Susceptibility Test Disc 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar Bacitracin	Resistant	≤ 6 mm <sup>2</sup>
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> , strain SH1000 (GenBank: CP059180.1)	99.9% sequence identity to <i>S. aureus</i> , strain SH1000 (GenBank: CP059180.1) <sup>3</sup>
<b>Purity (post-freeze)</b> 8 days at 37°C in an aerobic atmosphere with and without 5% CO <sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability (post-freeze)</b>	Growth	Growth

<sup>1</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: Clinical & Laboratory Standards Institute (CLSI) M100-S28 (2018) or European Committee on Antimicrobial Susceptibility Testing (EUCAST) Version 13.0 (2023)

<sup>2</sup>No CLSI or EUCAST interpretations of this antibiotic for *S. aureus* are currently available.

<sup>3</sup>Also consistent with other *Staphylococcus* species

Figure 1: Colony Morphology



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