

**Staphylococcus aureus, Strain AJUL23**

**Catalog No. NR-55237**

**Product Description:**

*Staphylococcus aureus* (*S. aureus*), strain AJUL23 is deposited as a rifampicin-resistant spontaneous mutant of *S. aureus*, strain SH1000, which was selected on agar and characterized by PCR and sequencing of the DNA-directed RNA polymerase subunit  $\beta$  (*rpoB*) gene. Strain AJUL23 is reported to contain amino acid substitution H<sub>481</sub>Y in the *rpoB* gene. NR-55237 was produced by resuspension of a lyophilized vial of deposited material in Tryptic Soy broth. Broth inoculum was added to Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. The material from the initial growth was added to Tryptic Soy agar 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: 70052867**

**Manufacturing Date: 20MAY2022**

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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, low convex, entire, smooth and cream Non-motile Non-hemolytic Positive <i>S. aureus</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>1</sup></b> Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar Rifampicin	Resistant	Resistant ( $\geq 32 \mu\text{g}$ per mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	$\geq 99\%$ 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>2</sup>
<b>Purity (post-freeze)</b> 7 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)

<sup>2</sup>Also consistent with other *Staphylococcus* species

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