

Staphylococcus aureus, Strain OR-434

Catalog No. NR-46356

This reagent is the tangible property of the U.S. Government.

Product Description:

Staphylococcus aureus (*S. aureus*), strain OR-434 was isolated in 2007 from a patient in Oregon, USA. *S. aureus*, strain OR-434 (NRS830) was deposited to BEI Resources as part of the NARSA collection, sensitive to daptomycin, doxycycline, gentamicin, linezolid, rifampin, tetracycline, trimethoprim/sulfamethoxazole and vancomycin, intermediately resistant to chloramphenicol and resistant to clindamycin, erythromycin, levofloxacin, oxacillin and penicillin. NR-46356 was produced by inoculation of the deposited 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 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: 70062935

Manufacturing Date: 25AUG2023

BEI Resources is committed to ensuring digital accessibility for people with disabilities. This Certificate of Analysis contains complex tables and may not be fully accessible. Please let us know if you encounter accessibility barriers and a fully accessible document will be provided: E-mail: Contact@BEIResources.org. We try to respond to feedback within 24 hours.

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount) Hemolysis 2 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood Biochemical characterization Catalase Coagulase ¹ VITEK® 2 (GP card)	Gram-positive cocci Report results Report results Report results Positive Report results <i>S. aureus</i> (≥ 95%)	Gram-positive cocci Circular, low convex, entire, smooth and cream Non-motile β-hemolytic Positive Positive <i>S. aureus</i> (99.9%)
Antibiotic Susceptibility Profile² VITEK® (AST-GP78 card) Beta-lactamase Cefoxitin screen Benzylpenicillin Ceftaroline Ciprofloxacin Clindamycin Clindamycin (inducible resistance) Daptomycin Erythromycin Gentamicin Levofloxacin Linezolid Minocycline Moxifloxacin Nitrofurantoin Oxacillin Rifampicin Tetracycline	Report results Report results Report results Report results Report results Resistant Report results Sensitive Resistant Sensitive Resistant Sensitive Report results Report results Report results Resistant Sensitive Sensitive	Positive Positive Resistant (≥ 0.5 µg/mL) Sensitive (0.5 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 4 µg/mL) Negative Sensitive (0.25 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (2 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (4 µg/mL) Sensitive (16 to 32 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL)

Certificate of Analysis for NR-46356

TEST	SPECIFICATIONS	RESULTS
Tigecycline Trimethoprim/sulfamethoxazole Vancomycin Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar Chloramphenicol Quinupristin/dalfopristin Teicoplanin	Report results Sensitive Sensitive Intermediate Report results Report results	Sensitive ($\leq 0.12 \mu\text{g/mL}$) ³ Sensitive ($\leq 10 \mu\text{g/mL}$) Sensitive ($\leq 1 \mu\text{g/mL}$) Sensitive (3 $\mu\text{g/mL}$) ⁴ Sensitive (0.5 $\mu\text{g/mL}$) Sensitive (0.38 $\mu\text{g/mL}$)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1460 base pairs)	$\geq 99\%$ sequence identity to <i>S. aureus</i> , strain OR-434 (GenBank: CAIHIW010000027.1)	100% sequence identity to <i>S. aureus</i> , strain OR-434 (GenBank: CAIHIW010000027.1)
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

¹1 day at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)

²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2018)

³MIC Interpretation Guideline: EUCAST Version 4.0 (2014)

⁴*S. aureus*, strain OR-434 was deposited as intermediately resistant to chloramphenicol but showed a MIC of 3 $\mu\text{g/mL}$ (interpreted as sensitive) for this antibiotic during QC testing. Testing was performed in duplicate.

/Sonia Bjorun Brower/
Sonia Bjorun Brower

09 JUN 2025

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC® to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

