

Staphylococcus aureus, Strain OR-131
Catalog No. NR-46251

Product Description: *Staphylococcus aureus* (*S. aureus*), strain OR-131 is a clinically-associated strain isolated in Oregon, USA. *S. aureus*, strain OR-131 is a methicillin-resistant *S. aureus* (MRSA) strain.

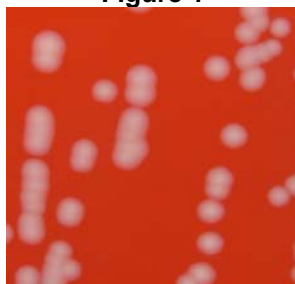
Lot¹: 62471629
Manufacturing Date: 02APR2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Hemolysis ² Biochemical characterization Catalase Coagulase ⁴ VITEK [®] 2 Compact (GP card) VITEK [®] MS (MALDI-TOF)	Gram-positive cocci Report results Report results Report results Positive Report results Consistent with <i>S. aureus</i> Consistent with <i>S. aureus</i>	Gram-positive cocci Circular, low convex, entire, smooth and white (Figure 1) Non-motile Non-hemolytic ³ Positive Positive Consistent with <i>S. aureus</i> Consistent with <i>S. aureus</i>
Antibiotic Susceptibility Profile VITEK [®] (AST-GP71card) ⁵ Beta-lactamase ⁶ Cefoxitin screen Benzylpenicillin Oxacillin Gentamicin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Quinupristin/dalfopristin Linezolid Daptomycin Vancomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole Etest [®] antibiotic test strips ⁷ Chloramphenicol ⁸ Teicoplanin ⁸	Report results Report results Report results Resistant Sensitive Report results Resistant Report results Report results Resistant Resistant Sensitive Sensitive Sensitive Sensitive Report results Sensitive Report results Report results Sensitive Sensitive Intermediate Report results	Positive Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Resistant (= 4 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (= 0.5 µg/mL) Sensitive (= 2 µg/mL) Sensitive (= 0.25 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (= 32 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 10 µg/mL) Sensitive (= 3 µg/mL) ⁹ Sensitive (= 1 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	Consistent with <i>S. aureus</i>	Consistent with <i>S. aureus</i>
Viability (post-freeze)²	Growth	Growth

¹*S. aureus*, strain OR-131 was deposited to BEI Resources as part of the NARSA collection. NR-46251 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 23 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown 24 hours at 37°C in an aerobic atmosphere to produce this lot. Purity of this lot was

- assessed for 7 days under propagation conditions.
- ²24 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
- ³Limited β -hemolysis was observed after 48 hours
- ⁴4 hours at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)
- ⁵Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)
- ⁶The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).
- ⁷24 hours at 37°C in an aerobic atmosphere on Mueller Hinton agar
- ⁸For both chloramphenicol (bioMérieux Etest® 412308) and teicoplanin (bioMérieux Etest® 412459), a MIC \leq 8 μ g/mL is sensitive, a MIC = 16 μ g/mL is intermediate and a MIC \geq 32 μ g/mL is resistant.
- ⁹*S. aureus*, strain OR-131 was deposited as having an intermediate susceptibility to chloramphenicol. ATCC® quality control determined that *S. aureus*, strain OR-131 is susceptible to chloramphenicol. Repeat testing confirmed ATCC®'s initial results.

Figure 1



Date: 01 JUL 2014

Signature:

Title:

Technical Manager, BEI Authentication or designee

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