

Staphylococcus aureus, Strain BR 15

Catalog No. NR-45889

Product Description: *Staphylococcus aureus* (*S. aureus*), strain BR 15 was isolated in 1998 from a wound of an 8-year-old male burn patient in Brazil. *S. aureus*, strain BR 15 is a vancomycin-intermediate *S. aureus* (VISA) strain.

Lot¹: 62363115

Manufacturing Date: 06FEB2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Hemolysis ² Biochemical Characterization Catalase Coagulase ³ VITEK [®] 2 Compact (GP card)	Gram-positive cocci Report results Report results Report results Positive Report results Consistent with <i>S. aureus</i>	Gram-positive cocci Circular, low convex, entire, smooth and yellow (Figure 1) Non-motile β-hemolytic Positive Positive Consistent with <i>S. aureus</i>
Antibiotic Susceptibility Profile VITEK [®] (AST-GP71 card) ⁴ Beta-lactamase ⁵ Cefoxitin screen Benzylpenicillin Oxacillin Gentamicin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Quinupristin/dalfopristin Linezolid Daptomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole Etest [®] antibiotic test strips ⁷ Chloramphenicol ⁸ Teicoplanin ⁸ Vancomycin ⁸	Report results Report results Report results Resistant Resistant Resistant Resistant Report results Report results Report results Resistant Resistant Sensitive Sensitive Report results Report results Report results Report results Report results Report results Resistant Report results Report results Intermediate	Positive Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 16 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 (= 1 µg/mL) Intermediate (= 8 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 16 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 320 µg/mL) Resistant (= 256 µg/ml) Sensitive (= 3 µg/ml) Intermediate (= 3 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1500 base pairs)	Consistent with <i>S. aureus</i>	Consistent with <i>S. aureus</i>
Viability (post-freeze)²	Growth	Growth

¹*S. aureus*, strain BR 15 was deposited to BEI Resources as part of the NARSA collection. NR-45889 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 22 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 25 hours at 37°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed

for 8 days under propagation conditions.

²21 hours at 37°C and aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

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

⁴Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

⁵The production of beta-lactamase was detected using the Cefinase™ Paper Disc (BBL™ 231650). Both methods detected the presence of beta-lactamase.

⁷24 hours at 37°C and aerobic atmosphere on Mueller Hinton agar

⁸For both chloramphenicol (bioMérieux Etest® 412308) and teicoplanin (bioMérieux Etest® 412459), a MIC ≤ 8 µg/mL is sensitive, a MIC = 16 µg/mL is intermediate, and a MIC ≥ 32 µg/mL is resistant. For vancomycin (bioMérieux Etest® 412486), a MIC ≤ 2 µg/mL is sensitive, a MIC = 4 to 8 µg/mL is intermediate, and a MIC ≥ 16 µg/mL is resistant.

Figure 1



Date: 03 JUN 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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