

Staphylococcus aureus, Strain No. 315

Catalog No. NR-46003

Product Description: *Staphylococcus aureus* (*S. aureus*), strain No. 315 was isolated in 1971 from the trachea of a male in the United Kingdom. *S. aureus*, strain No. 315 is a methicillin-resistant *S. aureus* (MRSA) strain.

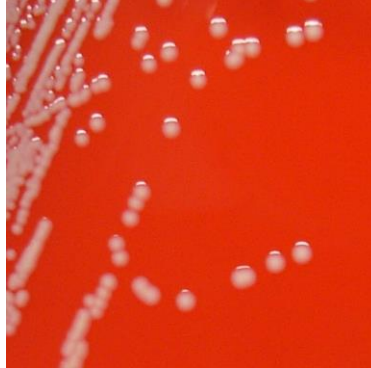
Lot¹: 63007599

Manufacturing Date: 17OCT2014

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, convex, entire, smooth and white (Figure 1) Non-motile Non-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 Vancomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole Etest [®] antibiotic test strips ⁶ Chloramphenicol ⁷ Teicoplanin ⁷	Report results Report results Report results Resistant Sensitive Sensitive Report results Report results Report results Report results Sensitive Sensitive Sensitive Sensitive Report results Sensitive Sensitive Report results Report results Report results Report results Report results Report results Sensitive Report results Sensitive	Positive Positive Resistant ($\geq 0.5 \mu\text{g/mL}$) Resistant ($\geq 4 \mu\text{g/mL}$) Sensitive ($\leq 0.5 \mu\text{g/mL}$) Sensitive ($\leq 0.5 \mu\text{g/mL}$) Sensitive ($\leq 0.12 \mu\text{g/mL}$) Sensitive ($\leq 0.25 \mu\text{g/mL}$) Negative Sensitive ($\leq 0.25 \mu\text{g/mL}$) Sensitive ($\leq 0.25 \mu\text{g/mL}$) Sensitive ($\leq 0.25 \mu\text{g/mL}$) Sensitive (= $1 \mu\text{g/mL}$) Sensitive (= $0.25 \mu\text{g/mL}$) Sensitive (= $1 \mu\text{g/mL}$) Sensitive (= $4 \mu\text{g/mL}$) Resistant ($\geq 16 \mu\text{g/mL}$) Sensitive ($\leq 0.12 \mu\text{g/mL}$) Sensitive ($\leq 16 \mu\text{g/mL}$) Sensitive ($\leq 0.5 \mu\text{g/mL}$) Sensitive ($\leq 10 \mu\text{g/mL}$) Sensitive (= $2 \mu\text{g/mL}$) Sensitive (= $0.38 \mu\text{g/mL}$)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 890 base pairs)	Consistent with <i>S. aureus</i>	Consistent with <i>S. aureus</i>
Purity⁸	Growth consistent with <i>S. aureus</i>	Growth consistent with <i>S. aureus</i>
Viability (post-freeze)²	Growth	Growth

- ¹*S. aureus*, strain No. 315 was deposited to BEI Resources as part of the NARSA collection. NR-46003 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 24 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 22 hours at 37°C in an aerobic atmosphere to produce this lot.
- ²24 hours at 37°C in an 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 a Cefinase™ Paper Disc (BBL™ 231650).
- ⁶24 hours at 37°C in an aerobic atmosphere on Mueller Hinton agar
- ⁷For 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
- ⁸Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere.

Figure 1



Date: 11 NOV 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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