

Staphylococcus aureus, Strain HT 20020067

Catalog No. NR-46026

Product Description: *Staphylococcus aureus* (*S. aureus*), strain HT 20020067 was isolated in 2002 from a wound of a 1-month-old female with bullous impetigo in France. *S. aureus*, strain HT 20020067 is a clinically associated methicillin-sensitive *S. aureus* (MSSA) strain.

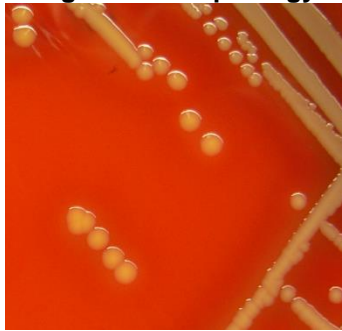
Lot¹: 63341056

Manufacturing Date: 26FEB2015

| TEST | SPECIFICATIONS | RESULTS |
|---|--|---|
| Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Hemolysis ² Biochemical Analysis 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 cream (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 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 Sensitive Sensitive Sensitive Report results Report results Report results Report results Resistant Sensitive Sensitive Report results Sensitive Sensitive Report results Report results Report results Report results Sensitive Report results Sensitive | Positive Negative Resistant (= 0.25 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 0.25 µg/mL) Positive ⁶ Resistant (≥ 8 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (= 2 µg/mL) Sensitive (= 0.5 µg/mL) Sensitive (= 1 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 16 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 10 µg/mL) Sensitive (= 6 µg/mL) Sensitive (= 1.5 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> |
| Purity (post-freeze)⁹ | Growth consistent with <i>S. aureus</i> | Growth consistent with <i>S. aureus</i> |
| Viability (post-freeze)² | Growth | Growth |

- ¹*S. aureus*, strain HT 20020067 was deposited to BEI Resources as part of the NARSA collection. NR-46026 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 21 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.
- ²23 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).
- ⁶The VITEK® AST-GP71 card tests for both clindamycin resistance and inducible clindamycin resistance (ICR). A positive ICR test is indicative of inducible MLS_B resistance, which confers resistance to macrolides, lincosamides, and type B streptogramin and the isolate should be considered resistant to clindamycin. *S. aureus*, strain HT 20020067 was found to be sensitive to clindamycin but had a positive ICR test and therefore is considered resistant to clindamycin.
- 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 ≤ 8 µg/mL is sensitive, a MIC = 16 µg/mL is intermediate and a MIC ≥ 32 µg/mL is resistant.
- ⁹Purity 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 - Morphology



Date: 28 APR 2015

Signature: 
BEI Resources Authentication

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