

Staphylococcus aureus, Strain HT 20020341

Catalog No. NR-46042

Product Description: *Staphylococcus aureus* (*S. aureus*), strain HT 20020341 was isolated in 2002 from the bloodstream of a 5-year-old male with native valve endocarditis in France. *S. aureus*, strain HT 20020341 is a clinically associated methicillin-resistant *S. aureus* (MRSA) strain.

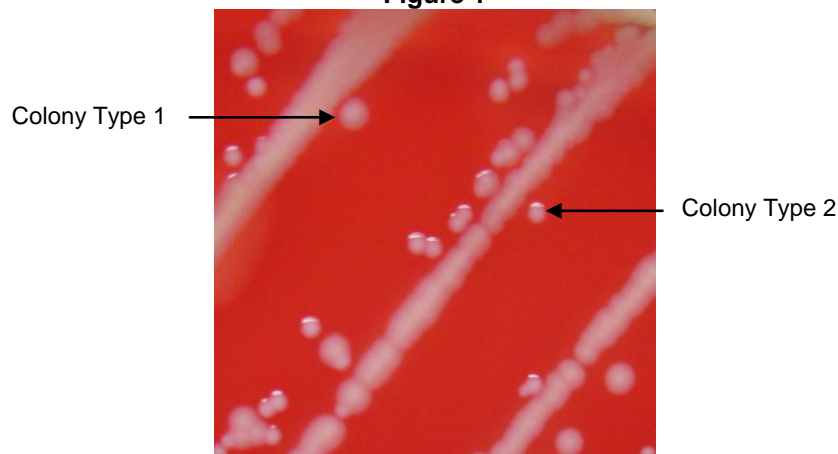
Lot¹: 63007602

Manufacturing Date: 22OCT2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphologies ^{2,3} Motility (wet mount) Hemolysis ² Biochemical Analysis Catalase Coagulase ⁴ 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 Colony Type 1: Circular, low convex, entire, smooth and cream (Figure 1) Colony Type 2: Circular, convex, entire, smooth and white (Figure 1) Non-motile β-hemolytic Positive Positive 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 ⁹ Chloramphenicol ¹⁰ Teicoplanin ¹⁰	Report results Report results Report results Resistant Report results Report results Report results Report results Report results Report results Resistant Resistant Sensitive Sensitive Report results Sensitive Report results Report results Report results Report results Report results Report results Sensitive Report results Sensitive	Positive Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) ⁷ Sensitive (≤ 0.5 µg/mL) ⁸ Sensitive (= 0.25 µg/mL) Sensitive (≤ 0.25 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (= 1 µg/mL) Sensitive (= 1 µg/mL) Sensitive (≤ 0.5 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 (= 3 µg/mL) Sensitive (= 1.5 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	Consistent with <i>S. aureus</i>	Consistent with <i>S. aureus</i>
Purity (post-freeze)¹¹	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 20020341 was deposited to BEI Resources as part of the NARSA collection. NR-46042 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 29 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.
- ²20 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
- ³Two colony types were observed. Plating of the individual colony types showed that they reverted back to colony type one.
- 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).
- ⁷*S. aureus*, strain HT 20020341 was deposited as being resistant to gentamicin. Antibiotic susceptibility testing performed in duplicate identified *S. aureus*, strain HT 20020341 as sensitive to gentamicin.
- ⁸*S. aureus*, strain HT 20020341 was deposited as being resistant to ciprofloxacin. Antibiotic susceptibility testing performed in duplicate identified *S. aureus*, strain HT 20020341 as sensitive to ciprofloxacin.
- ⁹24 hours at 37°C in an aerobic atmosphere on Mueller Hinton agar
- ¹⁰For 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.
- ¹¹Purity 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: 26 JAN 2015

Signature: 

Title: Technical Manager, BEI Authentication or designee

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