

Staphylococcus aureus, Strain HT 2000 0509

Catalog No. NR-45961

Product Description: *Staphylococcus aureus* (*S. aureus*), strain HT 2000 0509 was isolated from the skin infection of a 26-year-old male in France. *S. aureus*, strain HT 2000 0509 is a clinically associated methicillin-sensitive *S. aureus* (MSSA) strain.

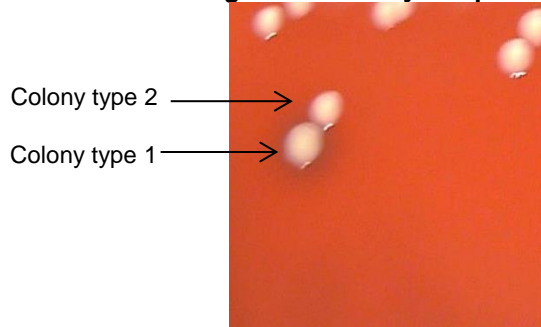
Lot¹: 63622040

Manufacturing Date: 15JUL2015

TEST	SPECIFICATIONS	RESULTS - Colony Type 1	RESULTS - Colony Type 2
Phenotypic Analysis^{2,3} Cellular morphology Colony morphology ⁴ Motility (wet mount) Hemolysis ⁴	Gram-positive cocci Report results Report results Report results	Gram-positive cocci Circular, flat, entire, smooth and cream (Figure 1) Non-motile β-hemolytic	Gram-positive cocci Circular, flat, entire, smooth and cream (Figure 1) Non-motile Non-hemolytic ⁵
Biochemical Analysis⁶ Catalase Coagulase ⁷ VITEK [®] 2 Compact (GP card)	Positive Report results Consistent with <i>S. aureus</i>	Positive Positive Consistent with <i>S. aureus</i>	
Antibiotic Susceptibility Profile⁶ VITEK [®] (AST-GP71 card) ⁸ Beta-lactamase ⁹ 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 ¹¹ Chloramphenicol ¹² Teicoplanin ¹²	Report results Report results Report results Sensitive Sensitive Sensitive Report results Report results Report results Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Report results Sensitive	Positive Negative Resistant (≥ 0.5 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (= 0.25 µg/mL) Sensitive (≤ 0.25 µg/mL) Negative Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (= 2 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) ¹⁰ Sensitive (≤ 16 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 10 µg/mL)	
Genotypic Analysis⁶ Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	Consistent with <i>S. aureus</i>	Consistent with <i>S. aureus</i>	
Purity (post-freeze)¹³	Growth consistent with <i>S. aureus</i>	Growth consistent with <i>S. aureus</i>	
Viability (post-freeze)⁴	Growth	Growth	

- ¹*S. aureus*, strain HT 2000 0509 was deposited to BEI Resources as part of the NARSA collection. NR-45961 was produced by inoculation of the deposited material into Tryptic Soy broth, which was used to inoculate a Tryptic Soy agar with 5% defibrinated sheep blood slant and grown for 1 day at 37°C in an aerobic atmosphere. After a hold at room temperature for 6 days, colonies from agar growth were used to inoculate Tryptic Soy broth and grown for 1 day under propagation conditions. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown 1 day under propagation conditions to produce this lot
- ²*S. aureus*, strain HT 2000 0509 was deposited as having two colony variants: a β-hemolytic variant and a non-hemolytic variant. The two colony variants are identical by pulsed-field gel electrophoresis (PFGE).
- ³Two colony types were observed. Plating of the individual colony types showed that they did not revert to the mixed colony type. The antibiogram for each colony types was determined using a VITEK[®] AST-GP71 card and found to be identical to the other colony type and with the depositor's antibiogram.
- ⁴1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
- ⁵Limited β-hemolysis may be observed
- ⁶Testing was performed using mixed colony suspension.
- ⁷4 hours at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)
- ⁸Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)
- ⁹The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).
- ¹⁰MIC Interpretation Guideline: EUCAST Version 4.0 (2014)
- ¹¹1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar
- ¹²For 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.
- ¹³Purity 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: Colony Morphology



Date: 06 NOV 2015

Signature: 
BEI Resources Authentication

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