

**Staphylococcus aureus, Strain Reynolds**

**Catalog No. NR-45908**

**Product Description:** *Staphylococcus aureus* (*S. aureus*), strain Reynolds was isolated in 1979 from a human blood culture in North Hollywood, California, USA. Strain Reynolds is a capsule-producing methicillin-sensitive *S. aureus* (MSSA) strain and is the prototype strain for type 5 capsular polysaccharide. It was deposited as resistant to penicillin and having spontaneous sulfamethoxazole-resistance.

**Lot<sup>1</sup>: 62363095**

**Manufacturing Date: 06FEB2014**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Motility (wet mount) Hemolysis <sup>2</sup> Biochemical characterization Catalase Coagulase <sup>3</sup> Beta-lactamase <sup>4</sup> VITEK <sup>®</sup> 2 Compact (GP card)	Gram-positive cocci Report results  Report results Report results  Positive Report results 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 Positive Consistent with <i>S. aureus</i>
<b>Antibiotic Susceptibility Profile<sup>5</sup></b> Oxacillin <sup>6</sup> bioMérieux Etest <sup>®</sup> (catalog number) <sup>7,8</sup> Benzylpenicillin (412264) Gentamicin (412367) Ciprofloxacin (412310) Erythromycin (412333) Clindamycin (412314) Quinupristin/dalfopristin (528750) Linezolid (412394) Vancomycin (412486) Trimethoprim/sulfamethoxazole (412480) Chloramphenicol (412308) Teicoplanin (412459)	Sensitive  Report results Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Report results Sensitive	Sensitive  Resistant (≥ 32 µg/mL) Sensitive (= 0.5 µg/mL) Sensitive (= 0.19 – 0.25 µg/mL) Sensitive (= 0.064 µg/mL) Sensitive (= 0.023 µg/mL) Sensitive (= 0.38 µg/mL) Sensitive (= 1 µg/mL) Sensitive (= 1.5 µg/mL) Sensitive (= 0.094 µg/mL) Sensitive (= 2.0 µg/mL) Sensitive (= 1.0 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1460 base pairs)	Consistent with <i>S. aureus</i>	Consistent with <i>S. aureus</i>
<b>Purity (post-freeze)<sup>9</sup></b>	Growth consistent with <i>S. aureus</i>	Growth consistent with <i>S. aureus</i>
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>*S. aureus*, strain Reynolds was deposited to BEI Resources as part of the NARSA collection. NR-45908 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 24 hours at 37°C in an aerobic atmosphere to produce this lot.

<sup>2</sup>20 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

<sup>3</sup>4 hours at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)

<sup>4</sup>The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).

<sup>5</sup>Due to its capsular nature, the use of automated susceptibility testing systems is not recommended for this strain.

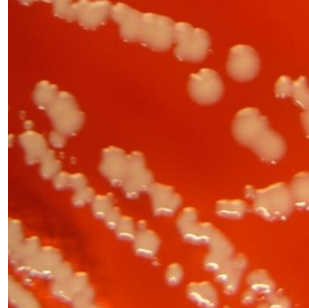
<sup>6</sup>24 hours at 30°C in an aerobic atmosphere on Mueller Hinton agar containing 6 µg/mL oxacillin and 4% NaCl (Oxacillin Screen Agar BBL™ 221952)

<sup>7</sup>24 hours at 37°C in an aerobic atmosphere on Mueller Hinton agar

<sup>8</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

<sup>9</sup>Purity 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: 29 JAN 2015

Signature: 

Title: Technical Manager, BEI Authentication or designee

ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

