

**Staphylococcus aureus, Strain HIP12864**

**Catalog No. NR-46074**

**Product Description:** *Staphylococcus aureus* (*S. aureus*), strain HIP12864 was isolated in 2003 from the bloodstream of a 78-year-old male in Oklahoma, USA. *S. aureus*, strain HIP12864 is a vancomycin-intermediate *S. aureus* (VISA) strain.

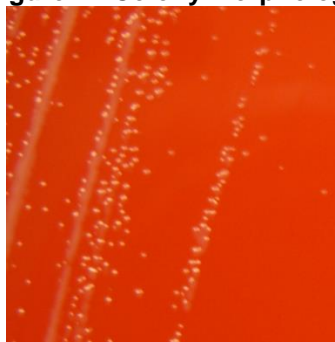
**Lot<sup>1</sup>: 63652468**

**Manufacturing Date: 23JUL2015**

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> VITEK <sup>®</sup> 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>
<b>Antibiotic Susceptibility Profile</b> VITEK <sup>®</sup> (AST-GP71 card): <sup>4</sup> Beta-lactamase <sup>5</sup> Cefoxitin screen Benzylpenicillin Oxacillin Gentamicin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Quinupristin/dalfopristin Linezolid Daptomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole Etest <sup>®</sup> antibiotic test strips: <sup>7</sup> Chloramphenicol <sup>8</sup> Teicoplanin <sup>8</sup> Vancomycin <sup>8</sup>	Report results Report results Report results Resistant Sensitive Report results Report results Report results Report results Resistant Resistant Sensitive Sensitive Non-susceptible Report results Report results Report results Report results Report results Sensitive  Report results Intermediate Report results	Positive Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (= 2 µg/mL) Non-susceptible (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.12 µg/mL) <sup>6</sup> Sensitive (≤ 16 µg/mL) Intermediate (= 2 µg/mL) Sensitive (≤ 10 µg/mL)  Sensitive (= 8 µg/mL) Intermediate (= 16 µg/mL) Intermediate (= 12 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	Consistent with <i>S. aureus</i>	Consistent with <i>S. aureus</i>
<b>Purity (post-freeze)<sup>9</sup></b>	Consistent with expected colony morphology	Consistent with expected colony morphology
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

- <sup>1</sup>*S. aureus*, strain HIP12864 was deposited to BEI Resources as part of the NARSA collection. NR-46074 was produced from a frozen subculture of the deposited material. The subculture was cultivated in Tryptic Soy broth for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown 1 day at 37°C in an aerobic atmosphere to produce this lot.
- <sup>2</sup>1 day 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>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)
- <sup>5</sup>The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).
- <sup>6</sup>MIC Interpretation Guideline: EUCAST Version 4.0 (2014)
- <sup>7</sup>1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar
- <sup>8</sup>For 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. For vancomycin (bioMérieux Etest® 412486), a MIC ≤ 2 µg/mL is sensitive, a MIC = 4-8 µg/mL is intermediate and a MIC ≥ 16 µg/mL is resistant.
- <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: Colony Morphology



Date: 01 DEC 2015

Signature:   
BEI Resources Authentication

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