

**Staphylococcus haemolyticus, Strain NRS116**

**Catalog No. NR-45922**

**Product Description:** *Staphylococcus haemolyticus* (*S. haemolyticus*), strain NRS116 was isolated in February 2002 from a 45-year-old male inpatient in California, USA. Strain NRS116 is a co-isolate with *S. haemolyticus*, strain NRS115 from the same patient. *S. haemolyticus*, strain NRS116 is reported to be a glycopeptide-intermediate *S. haemolyticus* strain.

**Lot<sup>1</sup>: 70011779**

**Manufacturing Date: 14FEB2018**

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 Negative <i>S. haemolyticus</i> (≥ 89%)	Gram-positive cocci Circular, convex, entire, smooth and cream (Figure 1) Non-motile Non-hemolytic  Positive Negative <i>S. haemolyticus</i> (99%)
<b>Antibiotic Susceptibility Profile<sup>4</sup></b> VITEK <sup>®</sup> (AST-GP78 card) Beta-lactamase <sup>5</sup> Cefoxitin screen Benzylpenicillin Oxacillin Gentamicin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Ceftaroline Linezolid Daptomycin Vancomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole Etest <sup>®</sup> antibiotic test strips <sup>7</sup> Teicoplanin Quinupristin/dalfopristin Vancomycin	Report results Report results Report results Resistant Sensitive Resistant Report results Report results Report results Report results Resistant Sensitive Report results Sensitive Susceptible Report results Report results Report results Report results Report results Report results Resistant  Intermediate Report results Sensitive	Positive Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (= 4 µg/mL) Resistant (≥ 8 µg/mL) Resistant (= 4 µg/mL) Intermediate (= 1 µg/mL) Negative Resistant (≥ 8 µg/mL) Sensitive (= 0.25 µg/mL) Sensitive (= 0.5 µg/mL) <sup>6</sup> Sensitive (= 2 µg/mL) Susceptible (= 0.25 µg/mL) Sensitive (= 4 µg/mL) Sensitive (= 1 µg/mL) Resistant (≥ 16 µg/mL) Resistant (= 1 µg/mL) <sup>6</sup> Sensitive (≤ 16 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 320 µg/mL)  Sensitive (= 3 µg/mL) <sup>8</sup> Sensitive (= 0.25 µg/mL) Sensitive (= 2 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 730 base pairs)	≥ 99% sequence identity to <i>S. haemolyticus</i> , type strain (GenBank: D83367.1)	100% sequence identity to <i>S. haemolyticus</i> , type strain (GenBank: D83367.1) <sup>9</sup>
<b>Purity (post-freeze)<sup>10</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. haemolyticus*, strain NRS116 was deposited to BEI Resources as part of the NARSA collection. NR-45922 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 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>1 day 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>*S. haemolyticus*, strain NRS116 was deposited as having an intermediate susceptibility to teicoplanin. Antibiotic susceptibility testing using bioMérieux Etest® antibiotic test strips and performed in duplicate determined that strain NRS116 is sensitive to teicoplanin. For additional information, please refer to Walsh, T. R., et al. "Evaluation of Current Methods for Detection of Staphylococci with Reduced Susceptibility to Glycopeptides." *J. Clin. Microbiol.* 39 (2001): 2439-2444. PubMed: 11427551.

<sup>9</sup>Also consistent with other *Staphylococcus* species

<sup>10</sup>Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



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