

Certificate of Analysis for NR-45922

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.

Lot¹: 70011779 Manufacturing Date: 14FEB2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, convex, entire, smooth and
3 3 7 3 7 3 3 7		cream (Figure 1)
Motility (wet mount)	Report results	Non-motile /
Hemolysis ²	Report results	Non-hemolytic
Biochemical characterization		,
Catalase	Positive	Positive
Coagulase ³	Negative	Negative
VITEK® 2 Compact (GP card)	S. haemolyticus (≥ 89%)	S. haemolyticus (99%)
Antibiotic Susceptibility Profile ⁴		
VITEK® (AST-GP78 card)		
Beta-lactamase ⁵	Report results	Positive
Cefoxitin screen	Report results	Positive
Benzylpenicillin	Report results	Resistant (≥ 0.5 µg/mL)
Oxacillin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Sensitive	Sensitive (= 4 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Levofloxacin	Report results	Resistant (= 4 µg/mL)
Moxifloxacin	Report results	Intermediate (= 1 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Resistant	Resistant (≥ 8 µg/mL)
Clindamycin	Sensitive	Sensitive (= 0.25 µg/mL)
Ceftaroline	Report results	Sensitive (= 0.23 µg/mL) ⁶
Linezolid	Sensitive	Sensitive (= 0.5 µg/mL)
Daptomycin	Susceptible	Susceptible (= 0.25 µg/mL)
Vancomycin	Report results	Sensitive (= 4 µg/mL)
Minocycline	Report results	Sensitive (= 4 µg/mL)
Tetracycline	Report results	Resistant (≥ 16 µg/mL)
Tigecycline	Report results	Resistant (= 1 µg/mL) ⁶
Nitrofurantoin	Report results	Sensitive (≤ 16 µg/mL)
Rifampicin	Report results	Sensitive (≤ 10 μg/mL)
	Resistant	
Trimethoprim/sulfamethoxazole Etest [®] antibiotic test strips ⁷	Resistant	Resistant (≥ 320 µg/mL)
	late was a dieta	Consitius (2 us/ssl)8
Teicoplanin Quinupristin/dalfopristin	Intermediate	Sensitive (= 3 μg/mL) ⁸ Sensitive (= 0.25 μg/mL)
	Report results	
Vancomycin	Sensitive	Sensitive (= 2 μg/mL)
Genotypic Analysis	≥ 99% sequence identity to	100% sequence identity to
Sequencing of 16S ribosomal RNA gene	S. haemolyticus, type strain	S. haemolyticus, type strain
(~ 730 base pairs)	(GenBank: D83367.1)	(GenBank: D83367.1) ⁹
Purity (post-freeze) ¹⁰	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze) ²	Growth	Growth
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BEI Resources www.beiresources.org E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898



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SUPPORTING INFECTIOUS DISEASE RESEARCH

1S. 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.

²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

³1 day at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)

⁴Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

⁵The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).

⁶MIC Interpretation Guideline: EUCAST Version 4.0 (2014)

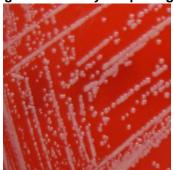
⁷1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar

8S. 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 teiocoplanin. 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.

⁹Also consistent with other *Staphylococcus* species

¹⁰Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.





12 JUN 2018

Program Manager or designee, ATCC Federal Solutions

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E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898