

Certificate of Analysis for NR-45896

Staphylococcus aureus, Strain NRS68

Catalog No. NR-45896

Product Description: Staphylococcus aureus (S. aureus), strain NRS68 was isolated in April 2001 from a 23-year-old female outpatient in Kentucky, USA. S. aureus, strain NRS68 was deposited as a vancomycin-intermediate S. aureus (VISA) strain.

Lot¹: 70011114 Manufacturing Date: 12JAN2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis ³	Report results	β-hemolytic
Biochemical characterization	report round	p nomely ac
Catalase	Positive	Positive
Coagulase ⁴	Report results	Positive
VITEK® 2 Compact (GP card)	S. aureus (≥ 89%)	S. aureus (96%)
Antibiotic Susceptibility Profile ⁵		
VITEK® (AST-GP71 card)		
Beta-lactamase ⁶	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 (≤ 0.5 μg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 8 μg/mL)
Levofloxacin	Report results	Resistant (= 4 µg/mL)
Moxifloxacin	Report results	Resistant (= 2 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Resistant	Resistant (≥ 8 µg/mL)
Clindamycin	Resistant	Resistant (≥ 8 µg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (= 0.5 µg/mL)
Linezolid	Sensitive	Sensitive (= 2 µg/mL)
Daptomycin	Susceptible	Susceptible (= 1 µg/mL)
Vancomycin	Intermediate	Intermediate (= 4 µg/mL)
Minocycline	Report results	Sensitive (≤ 0.5 μg/mL)
Tetracycline	Report results	Sensitive (≤ 1 µg/mL)
Tigecycline	Report results	Sensitive (≤ 0.12 μg/mL) ⁷
Nitrofurantoin	Report results	Sensitive (≤ 16 μg/mL)
Rifampicin	Report results	Sensitive (≤ 0.5 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 10 μg/mL)
Etest® antibiotic test strips8	Donort requite	Compiting (A.C. um/ml.)
Chloramphenicol	Report results	Sensitive (= 4-6 µg/mL)
Teicoplanin	Sensitive	Sensitive (= 2 µg/mL)
Vancomycin	Intermediate	Intermediate (= 3 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (740 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597)	100% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597) 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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SUPPORTING INFECTIOUS DISEASE RESEARCH

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¹S. aureus, strain NRS68 was deposited to BEI Resources as part of the NARSA collection. NR-45896 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 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

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

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

⁵Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

⁶The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).

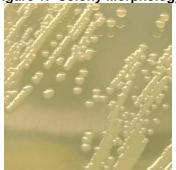
⁷MIC Interpretation Guideline: EUCAST Version 4.0 (2014)

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

⁹Also consistent with other Staphylococcus species

¹⁰Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.





/Heather Couch/ Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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