biei resources

SUPPORTING INFECTIOUS DISEASE RESEARCH

Staphylococcus aureus, Strain GA-810

Catalog No. NR-46304

This reagent is the tangible property of the U.S. Government.

Product Description:

Staphylococcus aureus (S. aureus), strain GA-810 was isolated in 2007 from a patient in Georgia, USA. S. aureus, strain GA-810 was deposited to BEI Resources as part of the NARSA collection. NR-46304 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 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 for 1 day at 37°C in an aerobic atmosphere to produce this lot.

Lot: 70062934

Manufacturing Date: 31AUG2023

BEI Resources is committed to ensuring digital accessibility for people with disabilities. This Certificate of Analysis contains complex tables and may not be fully accessible. Please let us know if you encounter accessibility barriers and a fully accessible document will be provided: E-mail: <u>Contact@BEIResources.org</u>. We try to respond to feedback within 24 hours.

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
1 day at 37°C in an aerobic atmosphere on		
Tryptic Soy agar with 5% defibrinated		
sheep blood		
Colony morphology 1 day at 37°C in an aerobic atmosphere on	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Tryptic Soy agar with 5% defibrinated		cream (Figure 1)
sheep blood		
Motility (wet mount)	Report results	Non-motile
Hemolysis	Report results	β-hemolytic
1 day at 37°C in an aerobic atmosphere on		r
Tryptic Soy agar with 5% defibrinated		
sheep blood		
Biochemical characterization		
Catalase	Positive	Positive
Coagulase ¹	Report results	Positive
VITEK [®] MS (MALDI-TOF)	S. aureus	S. aureus (99.9%)
Antibiotic Susceptibility Profile ²		
VITEK [®] (AST-GP78 card)		
Benzylpenicillin	Report results	Resistant (≥ 0.5 µg/mL)⁴
Beta-lactamase ³	Report results	Positive
Cefoxitin screen	Report results	Positive
Ceftaroline	Report results	Sensitive (0.5 µg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Clindamycin	Report results	Sensitive (0.25 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Daptomycin	Sensitive	Sensitive (0.25 to 0.5 µg/mL)
Erythromycin	Resistant	Resistant (≥ 8 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Levofloxacin	Report results	Sensitive (≤ 0.12 µg/mL)
Linezolid	Sensitive	Sensitive (2 µg/mL)
Minocycline	Sensitive	Sensitive (≤ 0.5 µg/mL)
Moxifloxacin	Report results	Sensitive (≤ 0.25 µg/mL)
Nitrofurantoin	Report results	Sensitive (≤ 16 µg/mL)
Oxacillin	Sensitive	Sensitive (≥ 4 µg/mL)
Rifampicin	Report results	Sensitive (≤ 0.5 µg/mL)

BEI Resources www.beiresources.org E-mail: <u>contact@beiresources.org</u> Tel: 800-359-7370 Fax: 703-365-2898

Certificate of Analysis for NR-46304

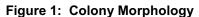
SUPPORTING INFECTIOUS DISEASE RESEARCH

TEST	SPECIFICATIONS	RESULTS
Tetracycline	Report results	Sensitive (≤ 1 µg/mL)
Tigecycline	Report results	Sensitive (≤ 0.12 µg/mL) ⁴
Trimethoprim/sulfamethoxazole	Report results	Sensitive (≤ 10 µg/mL)
Vancomycin	Report results	Sensitive (1 µg/mL)
Etest [®] antibiotic test strips ^{2,4}		
1 day at 35°C in an aerobic atmosphere on		
Mueller Hinton agar		
Chloramphenicol	Report results	Sensitive (3 µg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (0.75 µg/mL)
Teicoplanin	Sensitive	Sensitive (0.38 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	100% sequence identity to
(~ 1480 base pairs)	S. aureus, strain GA-810	S. aureus, strain GA-810
	(GenBank: CAIHHA010000021.1)	(GenBank: CAIHHA01000021.1)
Purity (post-freeze)	Growth consistent with expected	Growth consistent with expected
7 days at 37°C in an aerobic atmosphere with	colony morphology	colony morphology
and without 5% CO ₂ on Tryptic Soy agar with		
5% defibrinated sheep blood		
Viability (post-freeze)	Growth	Growth
1 day at 37°C in an aerobic atmosphere on		
Tryptic Soy agar with 5% defibrinated sheep		
blood ¹ 4 hours at 37°C in rabbit serum with 0.15% EDTA (Coagu		

¹⁴ hours at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL[™] 240827)
²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2018)

³The production of beta-lactamase was detected using a DrySlide™ Nitrocefin (BBL™ 231749).

⁴MIC Interpretation Guideline: EUCAST Version 4.0 (2014)





/Sonia Bjorum Brower/

Sonia Bjorum Brower

02 DEC 2024

Technical Manager or designee, ATCC Federal Solutions

ATCC[®] 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.

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC[®] 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[®]'s knowledge.



BEI Resources www.beiresources.org E-mail: <u>contact@beiresources.org</u> Tel: 800-359-7370 Fax: 703-365-2898