

## **Certificate of Analysis for NR-45878**

### Staphylococcus aureus, Strain HIP09735

#### Catalog No. NR-45878

**Product Description**: Staphylococcus aureus (S. aureus), strain HIP09735 was isolated in June 2000 from a 64-year-old male ICU inpatient in North Carolina, USA. S. aureus, strain HIP09735 was deposited as a vancomycin-intermediate S. aureus (VISA) strain.

Lot<sup>1</sup>: 70011104 Manufacturing Date: 20DEC2017

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology <sup>2</sup>	Report results	Circular, low convex, entire, smooth
g area, marpharagy	The second secon	and white (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis <sup>2</sup>	Report results	Non-hemolytic <sup>3</sup>
Biochemical characterization	· · · · · · · · · · · · · · · · · · ·	
Catalase	Positive	Positive
Coagulase <sup>4</sup>	Report results	Positive
VITEK® 2 Compact (GP card)	S. aureus (≥ 89%)	S. aureus (98%)
VITEK® MS (MALDI-TOF)	S. aureus	S. aureus (99.9%)
Antibiotic Susceptibility Profile <sup>5</sup>		
VITEK® (AST-GP71 card)		
	Poport regulto	Positivo
Beta-lactamase <sup>6</sup>	Report results	Positive
Cefoxitin screen	Report results	Positive
Benzylpenicillin	Report results	Resistant (≥ 0.5 µg/mL)
Oxacillin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Resistant	Resistant (≥ 16 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Levofloxacin	Report results	Resistant (≥ 8 µg/mL)
Moxifloxacin	Report results	Resistant (= 4 μg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Report results	Resistant (≥ 8 µg/mL)
Clindamycin	Report results	Resistant (≥ 8 µg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (= 0.5 µg/mL)
Linezolid	Report results	Sensitive (= 2-4 µg/mL)
Daptomycin	Non-susceptible	Non-susceptible (= 4 µg/mL)
Vancomycin	Intermediate	Intermediate (= 4 µg/mL)
Minocycline	Report results	Sensitive (≤ 0.5 μg/mL)
Tetracycline	Sensitive	Sensitive (≤ 1 µg/mL)
Tigecycline	Report results	Sensitive (= 0.25 µg/mL) <sup>7</sup>
Nitrofurantoin	Report results	Sensitive (≤ 16 μg/mL)
Rifampicin	Report results	Sensitive (≤ 0.5 μg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (= 80 µg/mL)
Etest® antibiotic test strips8		
Chloramphenicol	Report results	Sensitive (= 4 µg/mL)
Teicoplanin	Sensitive	Sensitive (= 3 µg/mL)
Gonotypic Analysis		
Genotypic Analysis	> 000/ paguanga idantituta C aurau	1000/ naguana idantitu ta C aurau
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to <i>S. aureus</i>	100% sequence identity to <i>S. aureus</i>
(~ 730 base pairs)	type strain (GenBank: L37597)	type strain (GenBank: L37597)9
Purity (post-freeze) <sup>10</sup>	Consistent with expected colony	Consistent with expected colony
i unity (post-meeze)	morphology	morphology
Viability (post-freeze) <sup>2</sup>	Growth	Growth
Viability (post-lieeze)	Giowiii	Giowiii

BEI Resources www.beiresources.org E-mail: contact@beiresources.org

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



SUPPORTING INFECTIOUS DISEASE RESEARCH

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<sup>1</sup>S. aureus, strain HIP09735 was deposited to BEI Resources as part of the NARSA collection. NR-45878 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>Limited β-hemolysis was observed after 2 days

<sup>4</sup>4 hours at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)

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

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

<sup>7</sup>MIC Interpretation Guideline: EUCAST Version 4.0 (2014)

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

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

<sup>10</sup>Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood.





10 MAY 2018

#### Program Manager or designee, ATCC Federal Solutions

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BEI Resources E-mail: contact@beiresources.org

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