

## **Certificate of Analysis for NR-51189**

## Staphylococcus aureus, Strain SA-1199B

## Catalog No. NR-51189

**Product Description:** *Staphylococcus aureus (S. aureus)*, strain SA-1199B was isolated in 1985 during ciprofloxacin treatment of a rabbit endocarditis model induced by infection with *S. aureus*, strain SA-1199. *S. aureus*, strain SA-1199 was isolated around 1980 from the bloodstream of a patient with endocarditis in Ann Arbor, Michigan, USA. *S. aureus*, strain SA-1199B was deposited as resistant to hydrophilic fluoroquinolones like ciprofloxacin.

Lot<sup>1</sup>: 70012683 Manufacturing Date: 07FEB2017

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology <sup>2</sup>	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis <sup>3</sup>	Report results	β-hemolytic
Biochemical characterization		P
Catalase	Positive	Positive
VITEK® 2 Compact (GP card)	S. aureus (≥ 89%)	S. aureus (98%)
Antibiotic Susceptibility Profile <sup>4</sup> VITEK® (AST-GP71 card)		
Beta-lactamase <sup>5</sup>	Report results	Positive
Cefoxitin screen	Report results	Negative
Benzylpenicillin	Report results	Resistant (≥ 0.5 µg/mL)
Oxacillin	Report results	Sensitive (≤ 0.25 µg/mL)
Gentamicin	Report results	Sensitive (≤ 0.5 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Levofloxacin	Report results	Intermediate (= 1-2 µg/mL)
Moxifloxacin	Report results	Sensitive (≤ 0.5 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Report results	Sensitive (≤ 0.25 μg/mL)
Clindamycin	Report results	Sensitive (≤ 0.25 μg/mL)
Quinupristin/dalfopristin	Report results	Sensitive (≤ 0.25 μg/mL)
Linezolid	Report results	Sensitive (= 2 µg/mL)
Daptomycin	Report results	Sensitive (= 0.5 µg/mL)
Vancomycin	Report results	Sensitive (= 1 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) <sup>6</sup>
Nitrofurantoin	Report results	Sensitive (≤ 16 μg/mL)
Rifampicin	Report results	Sensitive (≤ 0.5 µg/mL)
Trimethoprim/sulfamethoxazole	Report results	Sensitive (≤ 10 μg/mL)
Etest® antibiotic test strips <sup>7</sup>		
Oxacillin	Report results	Sensitive (= 0.25 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to <i>S. aureus</i>	100% sequence identity to S. aureus
(~ 870 base pairs)	type strain (GenBank: L37597)	type strain (GenBank: L37597)8
Purity (post-freeze) <sup>9</sup>	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze) <sup>2</sup>	Growth	Growth

<sup>&</sup>lt;sup>1</sup>The deposited material was inoculated into Tryptic Soy broth, which was used to inoculate a Tryptic Soy agar plate and was grown 1 day at 37°C in an aerobic atmosphere. Colonies were then suspended in Tryptic Soy broth and preserved in 10% glycerol. NR-51189 was produced by inoculation

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of the preserved 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

<sup>3</sup>1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

<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).

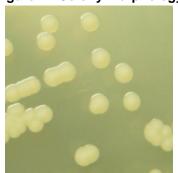
<sup>6</sup>MIC Interpretation Guideline: EUCAST Version 4.0 (2014)

<sup>7</sup>1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar

<sup>8</sup>Also consistent with other Staphylococcus species

<sup>9</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.





15 MAR 2018

Program Manager or designee, ATCC Federal Solutions

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