

Staphylococcus aureus, Strain MRSA131

Catalog No. HM-466

Product Description: *Staphylococcus aureus* (*S. aureus*), strain MRSA131 was isolated from the skin of a patient with a soft tissue infection in Villavicencio, Colombia.

Lot^{1,2}: 70016949

Manufacturing Date: 27JUN2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ³ Motility (wet mount) Oxacillin resistance ⁴ Hemolysis ⁵ Catalase VITEK [®] MS (MALDI-TOF)	Gram-positive cocci Report results Report results Resistant Report results Positive <i>S. aureus</i>	Gram-positive cocci Circular, convex, entire, smooth and cream (Figure 1) Non-motile Resistant β-Hemolytic Positive <i>S. aureus</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1430 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> , strain MRSA131 (GenBank: AECR01000001.1)	100% sequence identity to <i>S. aureus</i> , strain MRSA131 (GenBank: AECR01000001.1) ⁶
Purity (post-freeze)⁷	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)³	Growth	Growth

¹Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

²*S. aureus*, strain MRSA131 was deposited by Cesar A. Arias, M.D., Ph.D., Assistant Professor of Medicine, Department of Internal Medicine, The University of Texas Health Science Center at Houston, Houston, Texas, USA. HM-466 was produced by inoculation of BEI Resources HMS-466 lot 59999389 into Brain Heart Infusion broth, which was used to inoculate a Tryptic Soy agar with 5% defibrinated sheep blood plate and grown for 1 day at 37°C in an aerobic atmosphere with 5% CO₂. The growth material was passaged once on a Tryptic Soy agar with 5% defibrinated sheep blood plate for 3 days at 37°C in an aerobic atmosphere. Colonies were then suspended in Tryptic Soy broth and preserved in 10% glycerol. HM-466 lot 70016949 was produced by inoculation 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.

³1 day at 37°C in an aerobic atmosphere on Brain Heart Infusion agar

⁴1 day at 30°C in an aerobic atmosphere on Mueller Hinton agar containing 6 µg/mL oxacillin and 4% NaCl (Oxacillin Screen Agar BBL™ 221952)

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

⁶Also consistent with other *Staphylococcus* species

⁷Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Brain Heart Infusion agar.

Figure 1: Colony Morphology



/Heather Couch/
Heather Couch

06 SEP 2018

Program Manager or designee, ATCC Federal Solutions

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