

Certificate of Analysis for NR-48224

Staphylococcus aureus subsp. aureus, Strain JE2, Transposon Mutant NE1682 (SAUSA300_2367)

Catalog No. NR-48224

Product Description:

Staphylococcus aureus (S. aureus) subsp. aureus, transposon mutant NE1682 was derived from S. aureus subsp. aureus, strain JE2. Mutagenesis occurred through the use of the mariner-based transposon bursa aurealis resulting in an erythromycin-resistant deletion strain of JE2. S. aureus subsp. aureus, transposon mutant NE1682 was created by disruption of hlgB, which encodes for the pore-forming toxin (PFT) gamma-hemolysin B that is capable of lysing both leukocytes and erythrocytes when associated with gamma-hemolysin C (HlgC). Strain JE2 is a plasmid-cured derivative of strain LAC that was isolated in 2002 from a skin and soft tissue infection of an inmate in the Los Angeles County Jail in California, USA.

Lot: 70028614¹ Manufacturing Date: 05SEP2019

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, low convex, entire, smooth and yellow (Figure 1)
Motility (wet mount)	Report results	Non-motile
Confirmation of Transposon Insertion ³	Resistant to erythromycin	Resistant to erythromycin
Purity (post-freeze) ⁴	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze) ²	Growth	Growth

¹NR-48224 was produced by inoculation of NRS-48224 lot 63958887 into Tryptic Soy broth with 5 μg/mL erythromycin and incubated for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5 μg/mL erythromycin kolles which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot.

⁴Purity 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.

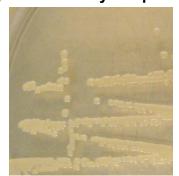


Figure 1: Colony Morphology

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²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5 μg/mL erythromycin

³Prior to initiating work, it is recommended that the presence and location of the transposon is confirmed. Gene specific primers should be paired with either the "Upstream" primer (5'-CTCGATTCTATTAACAAGGG-3') for transposons in the "plus" orientation or the "Buster" primer (5'-GCTTTTTCTAAATGTTTTTTAAGTAAATCAAGTAC-3') for transposons in the "minus" orientation. For additional information, refer to Fey, P. D., et al. "A Genetic Resource for Rapid and Comprehensive Phenotype Screening of Nonessential *Staphylococcus aureus* Genes." mBio 4 (2013): e00537-12. PubMed: 23404398.



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/Heather Couch/ Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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