SUPPORTING INFECTIOUS DISEASE RESEARCH

*Staphylococcus aureus* subsp. *aureus*, Strain JE2, Transposon Mutant NE514 (SAUSA300\_2437)

## Catalog No. NR-47057

**Product Description:** *Staphylococcus aureus (S. aureus)* subsp. *aureus,* transposon mutant NE514 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 NE514 was created by disruption of *sarT,* which encodes for staphylococcal accessory regulator T. 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<sup>1</sup>: 62676105

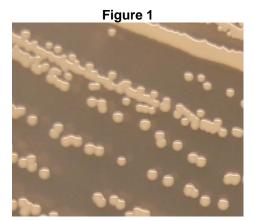
## Manufacturing Date: 20JUN2014

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)	Non-motile	Non-motile
Confirmation of Transposon Insertion <sup>3</sup>	Resistant to erythromycin	Resistant to erythromycin
Viability (post-freeze) <sup>2</sup>	Growth	Growth

<sup>1</sup>NR-47057 was produced by inoculation of the deposited material into Tryptic Soy broth with 5 µg/mL erythromycin and incubated for 24 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5 µg/mL erythromycin kolles which were grown 23 hours at 37°C in an aerobic atmosphere to produce this lot.

<sup>2</sup>24 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5 µg/mL erythromycin

<sup>3</sup>Prior 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'-GCTTTTTCTAAATGTTTTTAAGTAAATCAAGTAC-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." <u>MBio</u> 4 (2013): e00537-12. PubMed: 23404398.



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## **Certificate of Analysis for NR-47057**

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Signature: (

Date: 19 AUG 2014

Technical Manager, BEI Authentication or designee

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Title:

