

## **Certificate of Analysis for NR-46835**

Staphylococcus aureus subsp. aureus, Strain JE2, Transposon Mutant NE292 (SAUSA300\_0539)

Catalog No. NR-46835

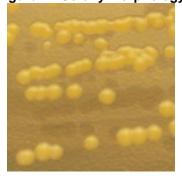
**Product Description:** Staphylococcus aureus (S. aureus) subsp. aureus, transposon mutant NE292 was derived from S. aureus subsp. aureus, strain JE2. Mutagenesis occurred through the use of the mariner-based transposon bursa aurealis resulting in an erythromycin-resistant deletion strain of JE2. S. aureus subsp. aureus, transposon mutant NE292 was created by disruption of ilvE, which encodes for a branched-chain amino acid (BCAA) aminotransferase that has a similar function as ybgE and ywaA of Bacillus subtilis. 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>: 62924597 Manufacturing Date: 03SEP2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology <sup>2</sup> Motility (wet mount)	Gram-positive cocci Report results Report results	Gram-positive cocci Circular, convex, entire, smooth and cream (Figure 1) Non-motile
Confirmation of Transposon Insertion <sup>3</sup>	Resistant to erythromycin	Resistant to erythromycin
Viability (post-freeze) <sup>2</sup>	Growth	Growth

<sup>&</sup>lt;sup>1</sup>NR-46835 was produced by inoculation of the deposited material into Tryptic Soy broth with 5 μg/mL erythromycin and incubated for 21 hours at 37°C in an aerobic atmosphere.

Figure 1: Colony Morphology



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<sup>&</sup>lt;sup>2</sup>23 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5 μg/mL erythromycin

<sup>&</sup>lt;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'-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.



## **Certificate of Analysis for NR-46835**

**Date:** 25 SEP 2014

Signature: (

**BEI Resources Authentication** 

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NR-46835 62924597 25SEP2014