

***Staphylococcus aureus* subsp. *aureus*, Strain JE2, Transposon Mutant NE286 (SAUSA300_0113)**

Catalog No. NR-46829

Product Description: *Staphylococcus aureus* (*S. aureus*) subsp. *aureus* transposon mutant NE286 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. 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.

Lot¹: 62436004

Manufacturing Date: 21MAR2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount)	Gram-positive cocci Report results Non-motile	Gram-positive cocci Circular, convex, entire, smooth and cream (Figure 1) Non-motile
Confirmation of Transposon Insertion³	Resistant to erythromycin	Resistant to erythromycin
Viability (post-freeze)²	Growth	Growth

¹NR-46829 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 24 hours at 37°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

²22 hours 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. The forward and reverse primers recommended by The Center for Staphylococcal Research are 5'-CTCGATTCTATTAACAAGGG-3' and 5'-GCTTTTTCTAAATGTTTTTAAGTAAATCAAGTAC-3', respectively. 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.

Figure 1



Date: 09 JUN 2014

Signature:

Title:

Technical Manager, BEI Authentication or designee

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