

Certificate of Analysis for NR-46554

Staphylococcus aureus subsp. aureus, Strain JE2, Transposon Mutant NE11 (SAUSA300_1592)

Catalog No. NR-46554

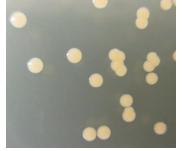
Product Description: Staphylococcus aureus (S. aureus) subsp. aureus, transposon mutant NE11 was derived from S. aureus subsp. aureus, strain JE2. Mutagenesis occurred through the use of the mariner-based transposon bursa aurealis resulting in an erythromycin-resistant deletion strain of JE2. S. aureus subsp. aureus, transposon mutant NE11 was created by disruption of recJ, which encodes for a single-stranded-DNA-specific exonuclease that processes the DNA ends of a double stranded break in preparation for DNA repair via homologous recombination. 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: 63431965 Manufacturing Date: 01MAY2015

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| Phenotypic Analysis Cellular morphology Colony morphology ² 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 ³ | Resistant to erythromycin | Resistant to erythromycin |
| Purity (post-freeze) ⁴ | Growth consistent with S. aureus | Growth consistent with S. aureus |
| Viability (post-freeze) ² | Growth | Growth |

¹NR-46554 was produced by inoculation of the deposited material 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 1 day at 37°C in an aerobic atmosphere to produce this lot.

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.

⁴Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.



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Date: 17 SEP 2015

Signature:

BEI Resources Authentication

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