

***Staphylococcus aureus* subsp. *aureus*, Strain JE2, Transposon NE1360 (SAUSA300_1255)**

Catalog No. NR-47902

Product Description:

Staphylococcus aureus (*S. aureus*) subsp. *aureus*, transposon mutant NE1360 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 NE1360 was created by disruption of SAUSA300_1255, which encodes for *fmtC* (also known as *mprF*), which encodes for a phosphatidylglycerol lysyltransferase that affects susceptibility to methicillin and host-produced defensins. NR-47902 was produced by the inoculation of BEI Resources seed lot 63817728 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. Quality control testing was completed under propagation conditions unless otherwise noted.

Note: 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.

Lot: 70054344

Manufacturing Date: 13JUL2022

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount)	Gram-positive cocci Report results Report results	Gram-positive cocci Circular, convex, entire, smooth and cream Non-motile
Confirmation of Transposon Insertion	Resistant to erythromycin	Resistant to erythromycin
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

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