

Escherichia coli – Staphylococcus aureus Shuttle Vector pCN57, Recombinant in Staphylococcus aureus

Catalog No. NR-46158

Product Description:

NR-46158 is *Staphylococcus aureus* (*S. aureus*), strain RN 4220 (RN9623, NRS623) containing the *Escherichia coli* (*E. coli*)-staphylococcal shuttle vector pCN57. Vector pCN57 contains the *E. coli* ColE1 replication origin, the *S. aureus* pT181 cop-wt-repC replicon, the P_{blaz} promoter and a promoterless β -lactamase reporter gene, *gfpmut2*. Vector pCN57 was deposited as resistant to ampicillin and erythromycin in *E. coli* and resistant to erythromycin in *S. aureus*. NR-46158 was produced by inoculation of BEI Resources seed lot 62782863 into Casitone-Yeast broth with 0.1M glycerol phosphate and 10 μ g/mL erythromycin and incubated for 1 day at 37°C in an aerobic atmosphere with shaking (250 rpm). The material from the initial growth was passaged once in Casitone-Yeast broth containing 0.1 M glycerol phosphate and 10 μ g/mL erythromycin and grown for 1 day at 37°C in an aerobic atmosphere with shaking at 250 rpm to produce this lot.

Lot: 70055553

Manufacturing Date: 28SEP2022

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 10 μ g/mL erythromycin Motility (wet mount)	Gram-positive cocci Report results Report results	Gram-positive cocci Circular, low convex, entire, smooth and cream Non-motile
Confirmation of Shuttle vector	Resistance to erythromycin	Resistance 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) 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 10 μ g/mL erythromycin	Growth	Growth

/Sonia Bjorum Brower/

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03 MAY 2023

Technical Manager or designee, ATCC Federal Solutions

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