Certificate of Analysis for NR-51164

Staphylococcus aureus Fluorescent Reporter Plasmid pSRFPS1, Recombinant in *Staphylococcus aureus*

Catalog No. NR-51164

Product Description:

NR-51164 is a culture of *Staphylococcus aureus (S. aureus),* strain RN4220 containing the DsRed.T3(DNT) red fluorescent protein (RFP) reporter plasmid pSRFPS1, a derivative of the *Escherichia coli (E. coli)* - staphylococcal shuttle vector pKK30. NR-51164 was produced by the inoculation of BEI Resources seed lot 70010751 into Tryptic Soy broth containing 10 µg/mL trimethoprim and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was used to inoculate Tryptic Soy agar with 10 µg/mL trimethoprim kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70064786 **Manufacturing Date: 29NOV2023**

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis 1 day at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood	β-hemolytic	β-hemolytic
Catalase	Positive	Positive
VITEK® MS (MALDI-TOF)	*S. aureus*	*S. aureus* (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to *S. aureus* type strain (GenBank: CP000253.1)	99.9% sequence identity to *S. aureus* type strain (GenBank: CP000253.1)
Antibiotic Resistance		
Trimethoprim (10 µg/mL)	Resistant	Resistant
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

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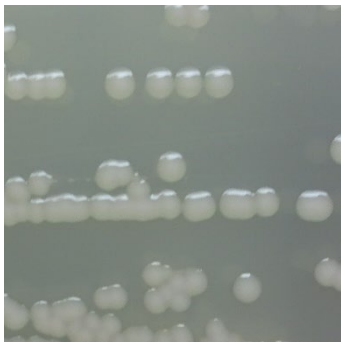
Figure 1: Colony Morphology



/Sonia Bjorum Brower/
Sonia Bjorum Brower 23 JAN 2025
Technical Manager or designee, ATCC Federal Solutions

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