

Certificate of Analysis for NR-55243

Staphylococcus aureus Shuttle Vector pSK5487M, Recombinant in *Escherichia coli*, Strain DH5α

Catalog No. NR-55243

Product Description:

Escherichia coli (E. coli), strain DH5α is an ampicillin-resistant cloning host containing the *E. coli*-staphylococcal shuttle vector pSK5487M for use with the *Staphylococcus aureus* (*S. aureus*) cross-resistance panel, available from BEI Resources as NR-55306, for the addition of resistance determinants. Vector pSK5487M contains a 1900 base pair replication region of *S. aureus* multiresistance plasmid pSK41 cloned into the *Eco*Rv site of vector pGEM5Zf, and the chloramphenicol resistance gene (*cat*) cloned between the *sac*I and *sal*I restriction sites for selection in *S. aureus*. The lyophilized deposited material was resuspended in Tryptic Soy broth. Broth inoculum was added to Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. The material from the initial growth was added to a Tryptic Soy agar with 5% defibrinated sheep blood plate, which was grown for 1 day at 37°C in an aerobic atmosphere, and colonies from the resulting subculture were harvested in Tryptic Soy broth with 10% glycerol, vialed and frozen. NR-55243 was produced by inoculation of the frozen subculture into Tryptic Soy broth containing 10 μg per mL ampicillin and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar containing 10 μg per mL ampicillin 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: 70053239 Manufacturing Date: 16JUN2022

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	E. coli	E. coli (99.9%)
Confirmation of Ampicillin Resistance 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar containing 10 µg per mL ampicillin	Growth	Growth
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	≥ 99% sequence identity to <i>E. coli</i> , strain DH5α (GenBank: JRBB01000068.1)	100% sequence identity to <i>E. coli</i> , strain DH5α (GenBank: JRBB01000068.1) ¹
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

¹Also consistent with Shigella and other Escherichia species

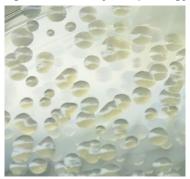
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Figure 1: Colony Morphology



/Sonia Bjorum Brower/ Sonia Bjorum Brower

31 JAN 2023

Technical Manager or designee, ATCC Federal Solutions

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