

**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 *EcoRv* site of vector pGEM5Zf, and the chloramphenicol resistance gene (*cat*) cloned between the *sacl* and *sall* 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, vialled 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
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-negative rods Report results  Report results <i>E. coli</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Motile <i>E. coli</i> (99.9%)
<b>Confirmation of Ampicillin Resistance</b> 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar containing 10 µg per mL ampicillin	Growth	Growth
<b>Genotypic Analysis</b> 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) <sup>1</sup>
<b>Purity (post-freeze)</b> 7 days at 37°C in an aerobic atmosphere with and without 5% CO <sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability (post-freeze)</b>	Growth	Growth

<sup>1</sup>Also consistent with *Shigella* and other *Escherichia* species

Figure 1: Colony Morphology



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