

***Escherichia coli* – *Staphylococcus aureus* Shuttle Vector pKK30, Recombinant in *Escherichia coli***

**Catalog No. NR-50349**

**Product Description:**

NR-50349 is a preserved culture of *Escherichia coli* (*E. coli*), strain DH5αpir containing the *E. coli* – staphylococcal shuttle vector pKK30. Vector pKK30 contains the *E. coli* R6Kγ origin of replication and is for use in *Staphylococcus* spp. strains without LAC-p01. Vector pKK30 contains a single trimethoprim resistance cassette that is functional in both *E. coli* and *S. aureus*. NR-50349 was produced by inoculation of BEI Resources seed lot 2094 into Tryptic Soy broth with 10 µg/mL trimethoprim and incubated for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to 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: 70056134**

**Manufacturing Date: 20OCT2022**

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, low convex, entire, smooth and cream Motile <i>E. coli</i> (99.9%)
<b>Confirmation of Trimethoprim Resistance</b>	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)
<b>Purity (post-freeze)</b> 7 days at 37°C in an aerobic atmosphere with 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

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20 MAR 2024

Technical Manager or designee, ATCC Federal Solutions

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