

Escherichia coli* – *Staphylococcus aureus* Shuttle Vector pKK22, Recombinant in *Escherichia coli

Catalog No. NR-50348

Product Description: NR-50348 is a preserved culture of *Escherichia coli* (*E. coli*) DH5αλpir containing the *E. coli*-staphylococcal shuttle vector pKK22. Vector pKK22 contains the *E. coli* R6Ky origin of replication and is for use in *E. coli* and *Staphylococcus aureus* (*S. aureus*) USA300 strains that contain LAC-p01, rendering them isogenic. Vector pKK22 contains a single trimethoprim resistance cassette that is functional in both *E. coli* and *S. aureus*.

Lot¹: 2091

Manufacturing Date: 26OCT2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-negative rods Report results Report results Consistent with <i>E. coli</i>	Gram-negative rods Circular, low convex, entire, smooth and cream (Figure 1) Motile <i>E. coli</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs) Riboprinter® Microbial Characterization System	≥ 99% sequence identity to <i>E. coli</i> DH5α (GenBank: JRBB01000068) ≥ 85% <i>E. coli</i>	99.9% sequence identity to <i>E. coli</i> DH5α (GenBank: JRBB01000068) ³ 96% <i>E. coli</i>
Confirmation of Trimethoprim Resistance²	Growth	Growth
Purity (post-freeze)⁴	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-50348 was produced by inoculation of the deposited material in 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 for 1 day at 37°C in an aerobic atmosphere to produce this lot.

²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 10 µg/mL trimethoprim

³Also 99.9% sequence identity to some *Shigella flexneri* strains

⁴Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood

Figure 1: Colony Morphology



Date: 03 JAN 2017

Signature: 

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