

Escherichia coli, Strain DH5αpir

Catalog No. NR-50350

Product Description:

Escherichia coli (*E. coli*), strain DH5αpir contains the *pir* gene, which allows genetic manipulations of vectors prior to transfer into *Staphylococcus* species. Strain DH5αpir has genotype F-Φ80*dlacZ* Δ*M15* Δ*lacZYA-argF U169 deoR supE44 hsdR17 recA1 endA1 gyrA96 thi-1 relA1*. NR-50350 was produced by inoculation of BEI Resources seed lot 2096 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: 70056137

Manufacturing Date: 07OCT2022

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis 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 gray Motile <i>E. coli</i> (99.9%)
Confirmation of Trimethoprim Resistance	Growth	Growth
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1400 base pairs)	≥ 99% sequence identity to <i>E. coli</i> , Strain DH5α (GenBank: JRBB01000068.1)	99.9% sequence identity to <i>E. coli</i> , Strain DH5α (GenBank: JRBB01000068.1) ¹
Purity (post-freeze) 11 days at 37°C in an aerobic atmosphere with 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 99.9% sequence identity to some *Shigella flexneri* strains

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