

Escherichia coli K-12, Strain DC10B

Catalog No. NR-49804

Product Description: *Escherichia coli* (*E. coli*) K-12, strain DC10B is a DNA cytosine methyltransferase (*dcm*) deletion mutant that was produced from *E. coli* K-12 derivative strain DH10B via recombination-mediated genetic engineering (recombineering). Strain DC10B is a universal host for constructing plasmids for introduction into staphylococci and was deposited as Δdcm and resistant to streptomycin.

Lot¹: 63849792

Manufacturing Date: 19NOV2015

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, raised, entire, smooth, translucent and cream (Figure 1) Motile <i>E. coli</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs) Riboprinter [®] Microbial Characterization System	≥ 99% sequence identity to <i>E. coli</i> K-12 strain (GenBank: NZ_CP014225.1) ≥ 85% <i>E. coli</i>	99.5% sequence identity to <i>E. coli</i> K-12 strain (GenBank: NZ_CP014225.1) 96% <i>E. coli</i>
Confirmation of Streptomycin Resistance²	Growth	Growth
Purity (post-freeze)³	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-49804 was produced by inoculation of the deposited material into Tryptic Soy broth with 25 µg/mL streptomycin and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 25 µg/mL streptomycin kolles, which were grown 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 25 µg/mL streptomycin

³Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



Date: 20 APR 2016

Signature: 

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