

***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: 70008334

Manufacturing Date: 23AUG2017

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) VITEK [®] MS (MALDI-TOF)	Gram-negative rods Report results Report results <i>E. coli</i> ($\geq 90\%$)	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Motile <i>E. coli</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 720 base pairs)	$\geq 99\%$ sequence identity to <i>E. coli</i> K-12 strain (GenBank: NZ_CP014225.1)	99.7% sequence identity to <i>E. coli</i> K-12 strain (GenBank: NZ_CP014225.1)
Confirmation of Streptomycin Resistance²	Growth	Growth
Purity (post-freeze) Tryptic Soy agar with 25 μ g/mL streptomycin ³ Tryptic Soy agar ⁴	Growth consistent with expected colony morphology Growth consistent with expected colony morphology	Growth consistent with expected colony morphology Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

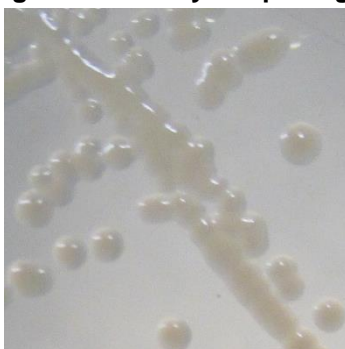
¹NR-49804 was produced by inoculation of NRS-49804 lot 63849793 into Tryptic Soy broth with 25 μ g/mL streptomycin and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 25 μ g/mL streptomycin kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot.

²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 25 μ g/mL streptomycin

³Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere.

⁴Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere and in an aerobic atmosphere with 5% CO₂.

Figure 1: Colony Morphology



Date: 11 JAN 2018

Signature: 

BEI Authentication or designee

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