

## **Certificate of Analysis for NR-49804**

### Escherichia coli K-12, Strain DC10B

### Catalog No. NR-49804

### **Product Description:**

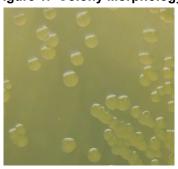
Escherichia coli (E. coli) K-12, strain DC10B is a DNA cytosine methyltransferase (dcm) deletion mutant that was produced from E. coli K-12 derivative strain DH10B via recombination-mediated genetic engineering (recombineering). Strain DC10B is a universal host for constructing plasmids for introduction into staphylococci and was deposited as  $\Delta dcm$  and resistant to streptomycin. NR-49804 was produced by inoculation of the BEI Resources seed lot into Tryptic Soy broth with 25  $\mu$ 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  $\mu$ g/mL streptomycin kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot.

Lot: 70031169 Manufacturing Date: 12DEC2019

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth
1 day at 37°C in an aerobic atmosphere on Tryptic		and cream (Figure 1)
Soy agar with 25 μg/mL streptomycin		
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	E. coli (≥ 90%)	E. coli (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	99.5% sequence identity to
(~ 1470 base pairs)	E. coli type strain (GenBank: JMST01000030.1)	E.coli type strain (GenBank: JMST01000030.1) <sup>1</sup>
Confirmation of Streptomycin Resistance		
1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 25 μg/mL streptomycin	Growth	Growth
Purity (post-freeze)		
7 days at 37°C in an aerobic atmosphere with and	Growth consistent with expected	Growth consistent with expected
without 5% CO <sub>2</sub> on Tryptic Soy agar with 5%	colony morphology	colony morphology
defibrinated sheep blood		
Viability (post-freeze)		
1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 25 μg/mL streptomycin	Growth	Growth

<sup>1</sup>Also consistent with *Shigella* and other *Escherichia* species

Figure 1: Colony Morphology



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/Heather Couch/

Heather Couch 14 APR 2020

Program Manager or designee, ATCC Federal Solutions

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