

Genomic DNA from *Escherichia coli*, Strain 4.0967

Catalog No. NR-19883

Product Description: Genomic DNA was isolated from a preparation of *Escherichia coli* (*E. coli*), strain 4.0967, serotype O145:H2. Enterohemorrhagic *E. coli* (EHEC), strain 4.0967 is reported to be a Shiga toxin-producing *E. coli* that was isolated from rabbit.

Lot¹: 59415653

Manufacturing Date: 20SEP2010

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (1400 base pairs)	Consistent with <i>E. coli</i>	Consistent with <i>E. coli</i> ^{2,3}
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen[®] Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	0.9 µg in 36 µL per vial (25 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on Tryptic Soy agar ^{4,5}	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced from BEI Resources NR-17633 (lot 59413890). Genomic DNA was extracted using proprietary technology.

²99.3% sequence identity to *E. coli*, strain 4.0967 (GenBank: AF002000008.1)

³Also consistent with *Shigella* species

⁴7 days at 37°C in an aerobic atmosphere

⁵An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

Date: 18 NOV 2015

Signature: 

BEI Resources Authentication

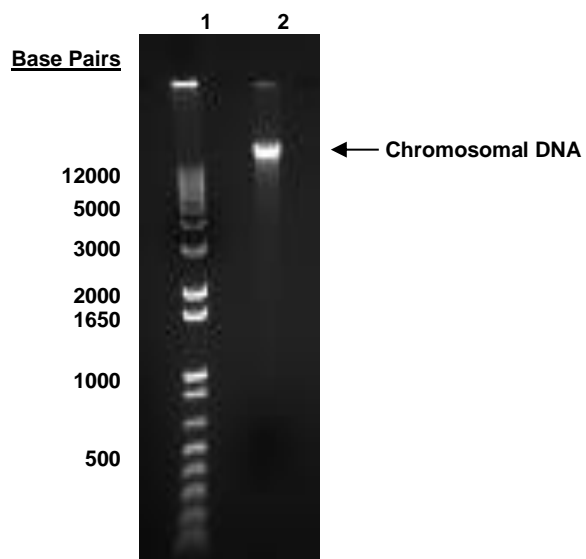
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Figure 1: High Molecular Weight Chromosomal DNA



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-19883