

Genomic DNA from *Escherichia coli*, Strain MG1655

Catalog No. NR-2655

Product Description: Genomic DNA was extracted from a preparation of non-pathogenic *Escherichia coli* (*E. coli*), strain MG1655, serotype O:H48:K-. *E. coli*, strain MG1655 was derived from a stab-culture descendant of the original *E. coli* K-12 isolate. *E. coli* K-12 was isolated from a stool sample of a diphtheria patient in Palo Alto, California, USA in 1922. *E. coli*, strain MG1655 has been maintained as a laboratory strain with minimal genetic manipulation, except for curing of the temperate bacteriophage lambda and F plasmid by ultraviolet light and acridine orange, respectively.

Lot¹: 64498989

Manufacturing Date: 09SEP2016

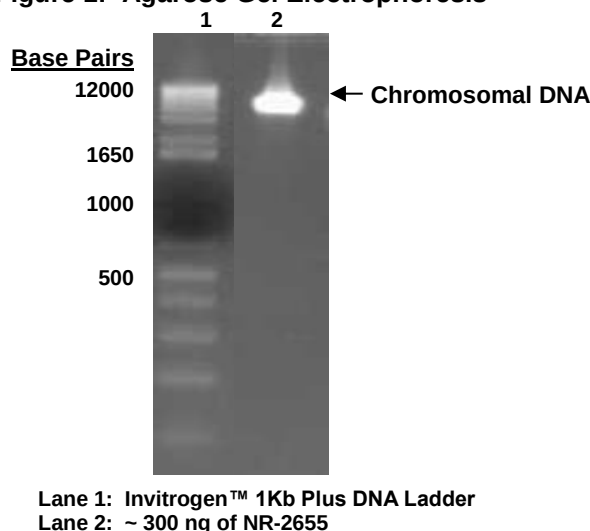
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 770 base pairs)	≥ 99% sequence identity to <i>E. coli</i> , strain MG1655 (GenBank: AYEK01000001)	99.7% sequence identity to <i>E. coli</i> , strain MG1655 (GenBank: AYEK01000001)
Agarose Gel Electrophoresis	High molecular 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	1.1 µg in 36 µL per vial (30 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 2.1	1.9
Bacterial Inactivation 10% of total yield plated on agar ^{2,3}	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced from BEI Resources NR-2653, lot 7526038. Genomic DNA was extracted using proprietary technology.

²An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative bacteria and Gram-positive bacteria.

³14 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Agarose Gel Electrophoresis



Date: 22 MAR 2017**Signature:**

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