

Genomic DNA from *Escherichia coli*, Strain CDC 9707

Catalog No. NR-2651

Product Description: Bacterial genomic DNA was isolated from a preparation of enteropathogenic *Escherichia coli* (EPEC), strain CDC 9707, serotype O127:K63(B8). The bacterial preparation was produced by propagation of BEI Resources NR-98.

Lot¹: 5107288

Manufacturing Date: 06FEB2006

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (First ~ 500 base pairs)	Consistent with <i>Escherichia coli</i>	Consistent with <i>Escherichia coli</i> ²
Presence of Plasmid Confirmed by PCR Amplification³ pEAF	Confirmed	Confirmed
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen[®] Measurement	4 to 6 µg in 25 to 100 µL per vial	4.1 µg in 67 µL per vial (62 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Virulence markers ³ EAF on pEAF <i>bfpA</i> on pEAF <i>eaeA</i> on chromosome	~ 1500 bp amplicon ~ 153 bp amplicon ~ 209 bp amplicon ~ 526 bp amplicon	~ 1500 bp amplicon ~ 153 bp amplicon ~ 209 bp amplicon ~ 526 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.8
Bacterial Inactivation 10% of total yield plated on Nutrient Agar (BD 213000) and incubated for 7 days at 37°C; limit of detection is 0.1 colony-forming units per vial	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced by inoculation of BEI Resources NR-98 into LB Broth (ATCC[®] 602100). After incubation for 16 hours at 37°C, genomic DNA was extracted using proprietary technology.

²Also consistent with *Shigella* species.

³Kimata, K., et al. "Rapid Categorization of Pathogenic *Escherichia coli* by Multiplex PCR." *Microbiol. Immunol.* 49 (2005): 485492. PubMed: 15965295.

Date: 18 APR 2006

Signature: Signature on File

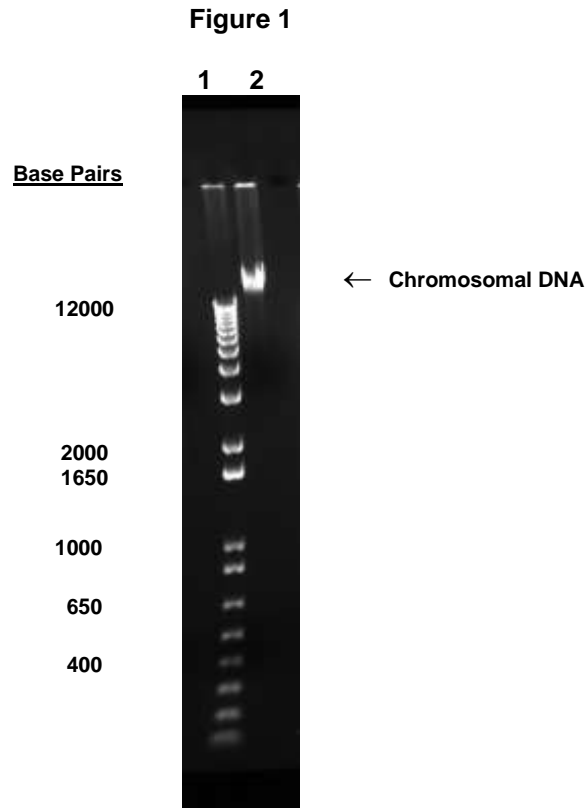
Title: Technical Manager, BEI Authentication

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Lane 1: Invitrogen™ 1Kb DNA Ladder™
Lane 2: 200 ng of NR-2651