

Genomic DNA from *Escherichia coli*, Strain UMN 308 (BAA-1162)

Catalog No. NR-3056

Product Description: Genomic DNA was isolated from a preparation of uropathogenic *Escherichia coli* (UPEC) strain UMN 308 (BAA-1162). The bacterial preparation was produced by propagation of BEI Resources NR-713.

Lot¹: 7642451

Manufacturing Date: 22SEP2006

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 500 bp)	Identical to BEI Resources NR-713 Consistent with <i>Escherichia coli</i>	Identical to BEI Resources NR-713 Consistent with <i>Escherichia coli</i> ²
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	5.4 µg in 50 µL per vial (106 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Virulence markers on chromosome ³ <i>stx1</i> <i>stx2</i> <i>eaeA</i>	~ 1500 bp amplicon Negative Negative Negative	~ 1500 bp amplicon Negative Negative Negative
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 1.9	1.8
Bacterial Inactivation 10% of total yield plated on Trypticase Soy Agar ^{4,5}	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-713 (Lot: 4131714) onto Tryptic Soy Agar. After incubation for 24 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): 485-492. PubMed: 15965295.

⁴Incubated for 7 days at 37°C and aerobic atmosphere with 5% CO₂.

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

Date: 07 MAY 2007

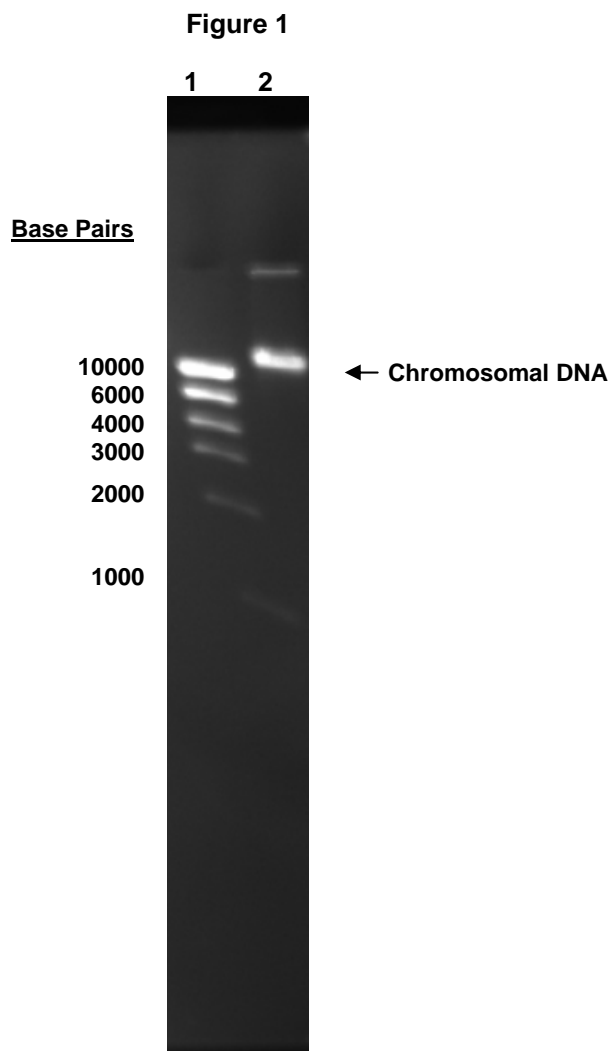
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Lane 1: Invitrogen™ High DNA Mass Ladder
Lane 2: 200 ng of NR-3056