

Genomic DNA from *Escherichia coli*, Strain 1885-77 (EDL 1282)

Catalog No. NR-3051

Product Description: Genomic DNA was isolated from a preparation of enteroinvasive *Escherichia coli* (EIEC) strain 1885-77 (EDL 1282), serotype O29:NM. The bacterial preparation was produced by propagation of BEI Resources NR-100.

Lot¹: 7642440

Manufacturing Date: 06OCT2006

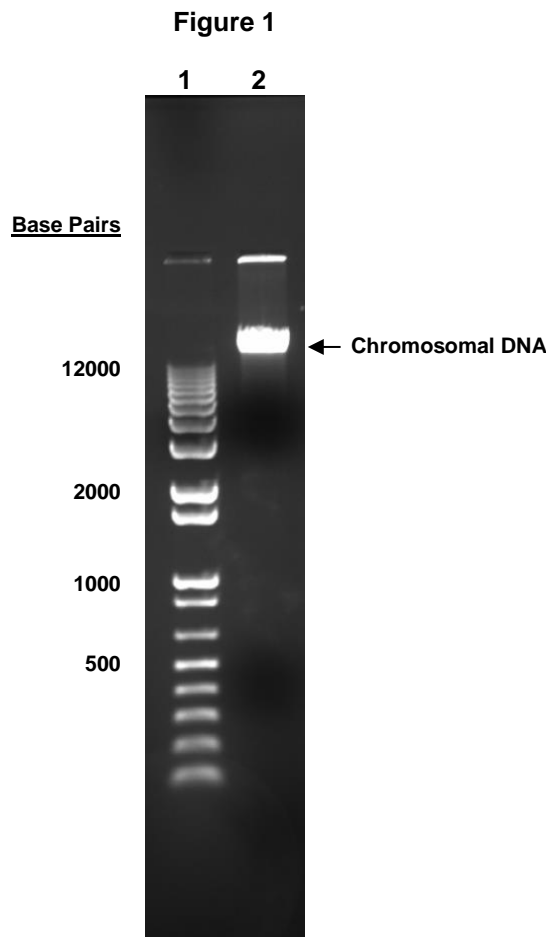
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S rRNA gene (~ 1350 bp) PCR amplification of plasmid markers <i>invE</i> (pINV) <i>elt</i> (pJY11) <i>esth</i> (pCS1) <i>estp</i> (pCS1) EAF (pEAF) <i>bfpA</i> (pEAF) CVD432 (pAA) <i>aggR</i> (pAA) PCR amplification of chromosomal markers <i>eaeA</i> <i>stx1</i> <i>stx2</i> <i>astA</i>	Consistent with <i>Escherichia coli</i> Positive Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Report results	Consistent with <i>Escherichia coli</i> ² Positive Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative Negative
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	5.2 µg in 49 µL per vial (105 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Virulence markers ³ <i>invE</i> (pINV)	~ 1500 bp amplicon ~ 293 bp amplicon	~ 1500 bp amplicon ~ 293 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.8
Bacterial Inactivation 10% of total yield plated on Trypticase Soy Agar and incubated for 7 days at 37°C	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-100 (Lot 3670406) into LB Broth (ATCC[®] 60-2100). After incubation for 19 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.

⁴An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative bacteria.



Lane 1: Invitrogen™ 1Kb Plus DNA Ladder
Lane 2: 200 ng of NR-3051

Date: 10 MAR 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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