

## Genomic DNA from *Escherichia coli*, Strain A

**Catalog No. NR-3046**

**Product Description:** Genomic DNA was isolated from a preparation of enterohemorrhagic *Escherichia coli* (EHEC) strain A serotype O157:H7.

**Lot<sup>1</sup>: 7559644**

**Manufacturing Date: 09AUG2006**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of 16S Ribosomal RNA Gene (~ 480 bps)</b>	Consistent with <i>Escherichia coli</i>	Consistent with <i>Escherichia coli</i> <sup>2</sup>
<b>Presence of Plasmid Confirmed by PCR Amplification</b> pO157	Confirmed	Confirmed
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Concentration by PicoGreen<sup>®</sup> Measurement</b>	4 to 6 µg in 25 to 100 µL per vial	4.9 µg in 21 µL <sup>3</sup> per vial (233 µg/mL)
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene Virulence markers on chromosome <sup>4</sup> <i>stx1</i> <i>stx2</i> <i>eaeA</i>	~ 1500 bp amplicon ~ 349 bp amplicon ~ 404 bp amplicon ~ 526 bp amplicon	~ 1500 bp amplicon ~ 349 bp amplicon ~ 404 bp amplicon ~ 526 bp amplicon
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 1.9	1.9
<b>Bacterial Inactivation</b> 10% of total yield plated on Tryptic Soy Agar <sup>5,6</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>The bacterial preparation used for extraction of genomic DNA was produced by inoculation of BEI Resources NR-8 (Lot 3592831) in Tryptic Soy Broth (BD 211825). After incubation for 24 hours at 37°C and aerobic atmosphere, genomic DNA was extracted using proprietary technology.

<sup>2</sup>Also consistent with *Shigella* species

<sup>3</sup>Volume in vial is slightly below specification; however, quantity is within specification.

<sup>4</sup>Kimata, K., et al. "Rapid Categorization of Pathogenic *Escherichia coli* by Multiplex PCR." *Microbiol. Immunol.* 49 (2005): 485-492. PubMed: 15965295.

<sup>5</sup>7 days at 37°C in an aerobic atmosphere

<sup>6</sup>An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative bacteria.

**Date:** 05 FEB 2009

**Signature:** Signature on File

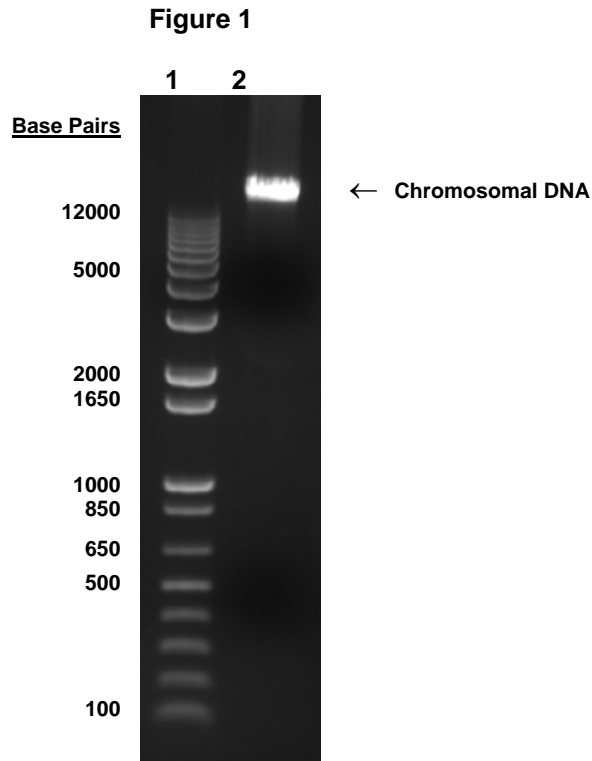
**Title:** Technical Manager, BEI Authentication or designee

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Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™  
Lane 2: 200 ng of NR-3046