

Genomic DNA from *Escherichia coli*, Strain H10407

Catalog No. NR-2647

Product Description: Genomic DNA was isolated from a preparation of enterotoxigenic *Escherichia coli* (ETEC), strain H10407, serotype O78:H11. The bacterial preparation was produced by propagation of BEI Resources NR-4.

Lot¹: 5107284

Manufacturing Date: 22FEB2006

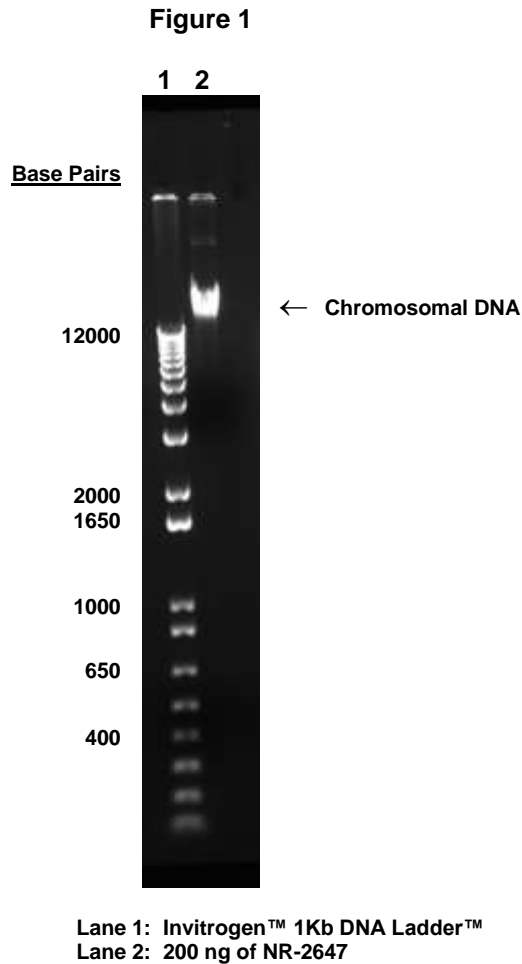
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S rRNA gene (~ 500 bp) PCR amplification of plasmid markers ³ <i>elt</i> (pJY11) <i>esth</i> (pCS1) <i>estp</i> (pCS1) EAF (pEAF) <i>bfpA</i> (pEAF) <i>invE</i> (pINV) CVD432 (pAA) <i>aggR</i> (pAA) PCR amplification of chromosomal markers ³ <i>eeA</i> <i>stx1</i> <i>stx2</i> <i>astA</i>	Identical to NR-4 Consistent with <i>Escherichia coli</i> Report results Report results Report results Negative Negative Negative Negative Negative Negative Negative Negative Report results	Identical to NR-4 Consistent with <i>Escherichia coli</i> ² Positive Positive Positive Negative Negative Negative Negative Negative Negative Negative Negative Positive
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	4.8 µg in 62 µL per vial (77 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Virulence markers ³ <i>elt</i> (pJY11) <i>esth</i> (pCS1) <i>estp</i> (pCS1) <i>astA</i> (chromosome)	~ 1500 bp amplicon ~ 263 bp amplicon ~ 179 bp amplicon ~ 123 bp amplicon ~ 106 bp amplicon	~ 1500 bp amplicon ~ 263 bp amplicon ~ 179 bp amplicon ~ 123 bp amplicon ~ 106 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.8
Bacterial Inactivation 10% of total yield plated on Nutrient 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-4 (Lot 3561329) into LB Broth (ATCC[®] 60-2100). 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): 485-492. PubMed: 15965295.

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



Date: 10 MAR 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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