

Genomic DNA from *Escherichia coli*, Strain NCDC U14-41

Catalog No. NR-3052

Product Description: Genomic DNA was isolated from a preparation of enteroaggregative *Escherichia coli* (EAggEC) strain NCDC U14-41, serotype O3:K2a,2b(L):H2. The bacterial preparation was produced by propagation of BEI Resources NR-102.

Lot¹: 7642443

Manufacturing Date: 06OCT2006

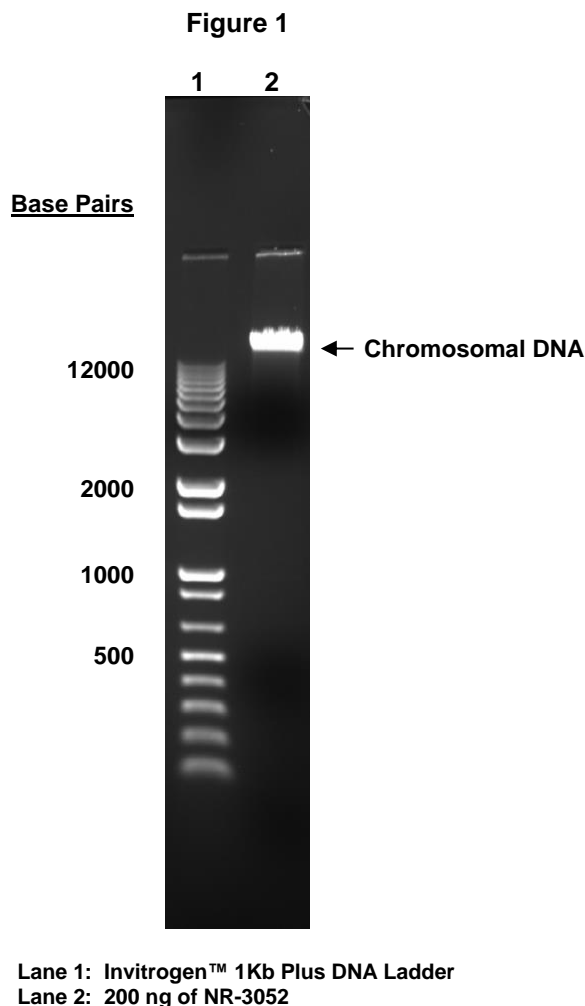
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S rRNA gene (~ 500 bp) PCR amplification of plasmid markers CVD432 (pAA) aggR (pAA) elt (pJY11) esth (pCS1) estp (pCS1) EAF (pEAF) bfpA (pEAF) invE (pINV) PCR amplification of chromosomal markers eaeA stx1 stx2 astA	Consistent with <i>Escherichia coli</i> Report results Report results Report results Report results Report results Negative Negative Negative Negative Negative Negative Report results	Consistent with <i>Escherichia coli</i> ² Positive Positive 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 44 µL per vial (117 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Virulence markers ³ CVD432 (pAA) aggR (pAA)	~ 1500 bp amplicon ~ 690 bp amplicon ~ 434 bp amplicon	~ 1500 bp amplicon ~ 690 bp amplicon ~ 434 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.9
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-102 (Lot 3670409) 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.



Date: 10 MAR 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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