

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* (EAEC), strain NCDC U14-41, serotype O3:K2a,2b(L):H2.

Lot¹: 64204563
Manufacturing Date: 06JUN2016

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 810 base pairs) PCR amplification of plasmid markers ^{2,3} CVD432 (pAA) aggR (pAA) elt (pJY11) esth (pCS1) estp (pCS1) EAF (pEAF) bfpA (pEAF) invE (pINV) PCR amplification of chromosomal markers ^{2,3} eaeA stx1 stx2 astA	≥ 99% sequence identity to <i>E. coli</i> type strain (GenBank: JMDT01000030.1) Report results Report results Report results Report results Report results Negative Negative Negative Negative Negative Negative Report results	99.1% sequence identity to <i>E. coli</i> type strain (GenBank: JMDT01000030.1) Positive Positive 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	0.7 to 1.5 µg in 25 to 100 µL per vial	0.93 µg in 46.5 µL per vial (20 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pairs amplicon	~ 1500 base pairs amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.7
Bacterial Inactivation 10% of total yield plated on Tryptic Soy agar with 5% defibrinated sheep blood ^{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-102, Lot 3670409, into Tryptic Soy broth. After incubation for 24 hours at 37°C, genomic DNA was extracted using proprietary technology.

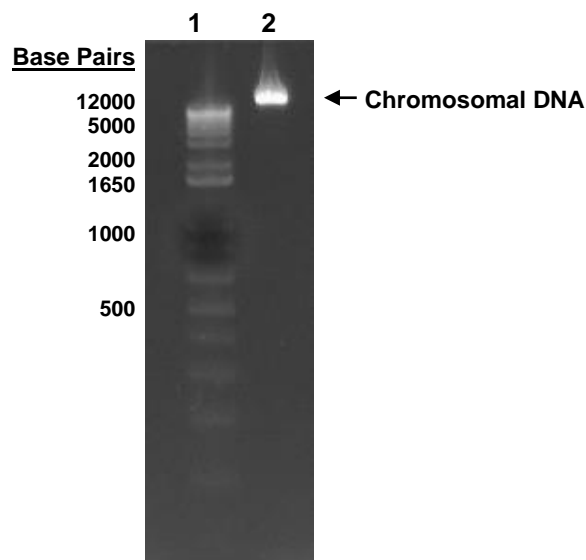
²PCR amplification was not performed on NR-3052, Lot 64204563. PCR amplification data was obtained from NR-3052, Lot 58666833, which was also produced from extraction of BEI Resources NR-102, Lot 3670409.

³Kimata, K., et al. "Rapid Categorization of Pathogenic *Escherichia coli* by Multiplex PCR." *Microbiol. Immunol.* 49 (2005): 485-492. PubMed: 15965295.

⁴14 days at 37°C in an aerobic atmosphere

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

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ 1Kb Plus DNA Ladder
Lane 2: 200 ng of NR-3052

Date: 26 SEP 2016

Signature:

BEI Resources Authentication

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