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

Catalog No. NR-3052

For research use only. Not for human use.

Contributor:
ATCC®

Manufacturer:
BEI Resources

Product Description:
Genomic DNA was isolated from a preparation of *Escherichia coli* (*E. coli*), strain NCDC U14-41, serotype O3:K2a,2b(L):H2.

The enteroaggregative *E. coli* (EAEC) strain NCDC U14-41 was isolated from human urine[1] in 1943 by Dr. F. Kauffmann and was deposited to ATCC® in 1967 by Dr. William H. Ewing, Bacteriology Section, National Communicable Disease Center, Atlanta, Georgia. PCR probes have been developed to identify the presence of aggregative adherence pattern associated plasmid (pAA) and the virulence marker *aggR*, which are commonly associated with EAEC.

NR-3052 has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S ribosomal RNA gene.

Material Provided:
Each vial contains 0.7 to 1.5 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH ~ 8.0). Each vial of lots 7642443 and 58666833 contain 5 to 7 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH ~ 7.4). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:
NR-3052 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from *Escherichia coli*, Strain NCDC U14-41, NR-3052."

Biosafety Level: 1
Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:
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References:
1. Acta Pathol. Microbiol. Scand. 20 (1943): 21-44.
2. Tsai, C. C., S. Y. Chen, and H. Y. Tsen. "Screening the Enteroaggregative *Escherichia coli* Activity and Detection of the *aggA*, *aafA*, and *astA* Genes with Novel PCR Primers for the *Escherichia coli* Isolates from Diarrhea Cases in Taiwan." Diagn. Microbiol. Infect. Dis. 46 (2003): 159-165. PubMed: 12867090.
3. Moon, J. Y., J. H. Park, and Y. B. Kim. "Molecular Epidemiological Characteristics of Virulence Factors on Enteroaggregative *E. coli*." FEMS Microbiol. Lett. 253 (2005): 215-220. PubMed: 16257141.

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