Product Information Sheet for NR-2651

Genomic DNA from *Escherichia coli*, Strain CDC 9707

Catalog No. NR-2651

For research use only. Not for human use.

Contributor: ATCC®

Product Description:
Genomic DNA was isolated from a preparation of *Escherichia coli (E. coli)*, strain CDC 9707, serotype O127:K63(B8). The bacterial preparation was produced by propagation of BEI Resources NR-98.

The enteropathogenic *E. coli* (EPEC) strain CDC 9707 was deposited at ATCC® by the Communicable Disease Center, Chablee, Georgia in 1967. EPEC strains cause diarrheal outbreaks and chronic diarrhea, especially in infants. EPEC pathogenesis requires the expression of genes present both on the chromosome and on an adherence factor plasmid, pEAF.[1,2] The complete sequence of the pEAF plasmid (also referred to as pB171) from EPEC strain B171 has been determined (68,817 bp; GenBank: AB024946).[1]

NR-2651 has been qualified for PCR applications by amplification of ~ 1500 bp of the 16S ribosomal RNA gene as well as a virulence marker on the chromosome. The presence of pEAF has been confirmed by PCR amplification of two virulence markers.

Material Provided:
Each vial contains 4–6 μg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl, 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-2651 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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Genomic DNA from *Escherichia coli*, Strain CDC 9707, NR-2651."

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. 4th ed. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm.

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References:

1. Tobe, T., et al. "Complete DNA Sequence and Structural Analysis of the Enteropathogenic *Escherichia coli* Adherence Factor Plasmid." Infect. Immun. 67 (1999): 5455–5462. PubMed: 10496929. GenBank: AB024946.
2. Okeke, I. N., et al. "Comparative Sequence Analysis of the Plasmid-Encoded Regulator of Enteropathogenic *Escherichia coli* Strains." Infect. Immun. 69 (2001): 5553–5564. PubMed: 11500429.

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