

Genomic DNA from *Escherichia coli*, Strain 94-G7771

Catalog No. NR-3047

For research use only. Not for human use.

Contributor:

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Product Description:

Genomic DNA was isolated from a preparation of *Escherichia coli* (*E. coli*), strain 94-G7771, serotype O157:NM.

E. coli, strain 94-G7771 was isolated from human feces in 1994. This strain carries the large plasmid, pO157, but the genes for Shiga toxins 1 and 2 that are found in most enterohemorrhagic *E. coli* (EHEC) strains are thought to be absent.

NR-3047 has been qualified for PCR applications by amplification of approximately 1500 bp of the 16S ribosomal RNA. The presence of plasmid pO157 has been confirmed by PCR amplification of an approximately 3200 bp sequence.

Material Provided:

Each vial contains 4–6 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl pH 7.4, 1 mM EDTA, pH 8.0). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-3047 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 94-G7771, NR-3047.”

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm.

Disclaimers:

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References:

1. Fields, P. I., et al. “Molecular Characterization of the Gene Encoding H Antigen in *Escherichia coli* and Development of a PCR-Restriction Fragment Length Polymorphism Test for Identification of *E. coli* O157:H7 and O157:NM.” *J. Clin. Microbiol.* 35 (1997): 1066–1070. PubMed: 9114382.
2. Murinda, S. E., et al. “Novel Single-Tube Agar-Based Test System for Motility Enhancement and Immunocapture of *Escherichia coli* O157:H7 by H7 Flagellar Antigen-Specific Antibodies.” *J. Clin. Microbiol.* 40 (2002): 4685–4690. PubMed: 12454173.

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