

Genomic DNA from *Escherichia coli*, Strain A

Catalog No. NR-3046

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Contributor:

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Product Description:

Genomic DNA was isolated from a preparation of *Escherichia coli* (*E. coli*), strain A, serotype O157:H7.

The enterohemorrhagic *E. coli* (EHEC), strain A was isolated from a human clinical specimen from Washington state. *E. coli* strain A, and many other EHEC strains encode potent toxins, similar to those of *Shigella dysenteriae*, which can cause severe intestinal, kidney and central nervous system disease.

NR-3046 has been qualified for PCR applications by amplification of ~ 1500 bp of the 16S ribosomal RNA gene as well as three virulence markers on the chromosome. The presence of plasmid pO157 has been confirmed by PCR amplification.

Material Provided:

Each vial contains 4 to 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-3046 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 A, NR-3046."

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/bmbl5/bmbl5toc.htm.

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References:

1. Kim, H. H., et al. "Characteristics of Antibiotic-Resistant *Escherichia coli* O157:H7 in Washington State, 1984-1991." J. Infect. Dis. 170 (1994): 1606-1609. PubMed: 7996005.

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