

Genomic DNA from *Escherichia coli*, Strain UMN 026 (BAA-1161)

Catalog No. NR-3055

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Contributor:
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Product Description:

Genomic DNA was isolated from a preparation of *Escherichia coli* (*E. coli*), strain UMN 026 (BAA-1161), serotype O17:K52:H18.

The extraintestinal pathogenic *E. coli* (ExPEC) strain UMN 026 (BAA-1161) was isolated from urine in 1999 from a female volunteer with acute cystitis in Minnesota, U.S.A.¹ Virulence factors of ExPEC belonging to a multidrug-resistant clonal group A (CGA) have been associated with urinary tract infections.²⁻⁵

NR-3055 has been qualified for PCR applications by amplification of ~ 1500 bp of the 16S ribosomal RNA.

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 vial should be centrifuged prior to opening.

Packaging/Storage:

NR-3055 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 UMN 026 (BAA-1161), NR-3055.”

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. Sannes, M. R., M. A. Kuskowski., and J. R. Johnson. “Antimicrobial Resistance of *Escherichia coli* Strains Isolated from Urine of Women with Cystitis or Pyelonephritis and Feces of Dogs and Healthy Humans.” J. Am. Vet. Med. Assoc. 225 (2004): 368–373. PubMed: 15328711.
2. Johnson, J. R., et al. “Rapid and Specific Detection of *Escherichia coli* Clonal Group A by Gene-Specific PCR.” J. Clin. Microbiol. 42 (2004): 2618–2622. PubMed: 15184442.
3. Johnson, J. R., et al. “A Disseminated Multidrug-Resistant Clonal Group of Uropathogenic *Escherichia coli* in Pyelonephritis.” Lancet 359 (2002): 2249–2251. PubMed: 12103291.
4. Johnson, J. R., et al. “Distribution and Characteristics of *Escherichia coli* Clonal Group A.” Emerg. Infect. Dis. 11 (2005): 141–145. PubMed: 15705341.
5. Manges, A. R., et al. “Widespread Distribution of Urinary Tract Infections Caused by a Multidrug-Resistant *Escherichia coli* Clonal Group.” N. Engl. J. Med. 345 (2001): 1007–1013. PubMed: 11586952.

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