

Genomic DNA from *Escherichia coli*, Strain RDEC-1

Catalog No. NR-3054

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 RDEC-1, serotype O15:NM.

E. coli, strain RDEC-1 was isolated in 1976 from rabbits with diarrhea.¹ *E. coli*, RDEC-1 is an attaching and effacing strain that causes diarrhea in post weanling rabbits. RDEC-1 has been used as an animal model of human enteropathogenic *E. coli* (EPEC) diarrhea.²

NR-3054 has been qualified for PCR applications by amplification of approximately 1500 bp of the 16S ribosomal RNA.

Note: The strain name is misspelled on the vial label.

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-3054 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 RDEC-1, NR-3054.”

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. Cantey, J. R. and R. K. Blake. “Diarrhea Due to *Escherichia coli* in the Rabbit: A Novel Mechanism.” J. Infect. Dis. 135 (1977): 454–462. PubMed: 321703.
2. Von Moll, L. K. and J. R. Cantey. “Peyer’s Patch Adherence of Enteropathogenic *Escherichia coli* Strains in Rabbits.” Infect. Immun. 65 (1997): 3788–3793. PubMed: 9284153.
3. Inman, L. R., J. R. Cantey, and S. B. Formal. “Colonization, Virulence, and Mucosal Interaction of an Enteropathogenic *Escherichia coli* (Strain RDEC-1) Expressing *Shigella* Somatic Antigen in the Rabbit Intestine.” J. Infect. Dis. 154 (1986): 742–751. PubMed: 2430026.
4. Cantey, J. R., W. B. Lushbaugh, and L. R. Inman. “Attachment of Bacteria to Intestinal Epithelial Cells in Diarrhea Caused by *Escherichia coli* Strain RDEC-1 in the Rabbit: Stages and Role of Capsule.” J. Infect. Dis. 143 (1981): 219–230. PubMed: 6163830.
5. Cantey, J. R. and L. R. Inman. “Diarrhea Due to *Escherichia coli* Strain RDEC-1 in the Rabbit: The Peyer’s Patch as the Initial Site of Attachment and Colonization.” J. Infect. Dis. 143 (1981): 440–446. PubMed: 7014731.

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