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SUPPORTING INFECTIOUS DISEASE RESEARCH

# Genomic DNA from *Escherichia coli,* Strain HS

## Catalog No. NR-9281

# 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 HS, serotype O9.

*E. coli,* strain HS was isolated from a laboratory scientist at Walter Reed Army Institute of Research, 1978.<sup>1,2</sup>

*E. coli*, strain HS is a commensal human isolate that shows no sign of disease in challenge experiments although it is able to colonize the human gastrointestinal tract. This strain is representative of the genomic baseline for human gastrointestinal tract colonization. It is competent and amendable to genetic manipulation, and is highly syntenic with other *E. coli* genomes.<sup>3,4</sup> Genome sequence information is available at <u>Escherichia coli</u>, strain HS Project at TIGR.

NR-9281 has been qualified for PCR applications by amplification of approximately 1500 bp of the 16S ribosomal RNA.

#### Material Provided:

Each vial contains 4 to 6  $\mu$ g 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-9281 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 HS, NR-9281."

#### **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. <u>Biosafety in</u> <u>Microbiological and Biomedical Laboratories</u>. 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:**

- Levine, M. M., et al. "Escherichia coli Strains that Cause Diarrhoea but do not Produce Heat-Labile or Heat-Stable Enterotoxins and are Non-Invasive." <u>Lancet</u> 311 (1978): 1119-1122. PubMed: 77415.
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- Kaper, J. B., J. P. Nataro and H. L. Mobley. "Pathogenic Escherichia coli." <u>Nat. Rev. Microbiol.</u> 2 (2004): 123-140. PubMed: 15040260.

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