Genomic DNA from *Escherichia coli*, Strain B171

**Catalog No. NR-9297**

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 B171. Strain B171 is an enteropathogenic E. coli (EPEC) that was isolated from a child with diarrhea in Seattle, Washington, 1983.1,2

E. coli, strain B171 is known to contain the adherence factor plasmid pB171 (EAF), pYR111 and a small cryptic plasmid.1,3 pYR11 harbors genes required for resistance to chloramphenicol, streptomycin, sulfonamide and tetracycline and for the expression of the O-111 polysaccharide.1 pB171 contains a locus coding for the structural subunit of the bundle-forming pilus which is required for the localized adherence phenotype.4 Genome sequence information is available at *Escherichia coli*, strain B171 Project at TIGR.

NR-9297 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 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-9297 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 B171, NR-9297."

**Biosafety Level: 1**


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**References:**

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