

Genomic DNA from *Yersinia enterocolitica* subsp. *enterocolitica*, Strain Billups-1803-68

Catalog No. NR-3064

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Contributor:

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Product Description:

Genomic DNA was isolated from a preparation of *Yersinia enterocolitica* (*Y. enterocolitica*) subsp. *enterocolitica*, strain Billups-1083-68.

Y. enterocolitica subsp. *enterocolitica* is a non-spore-forming, Gram-negative, rod-shaped coccobacillus. Virulence-associated genes are located on the chromosome and on the pYV (~ 64 to 75 kb) plasmid found in typical virulent strains of *Y. enterocolitica* subsp. *enterocolitica*.¹ This plasmid encodes a type III secretion system involved in the delivery of virulence proteins that contribute to internalization into host cells.²

Y. enterocolitica subsp. *enterocolitica*, strain Billups-1083-68 was isolated in 1968 from the blood of an adult female patient with bacteremia in St. Louis, Missouri.³

NR-3064 has been qualified for PCR applications by amplification of ~ 1500 bp of the 16S ribosomal RNA gene.

Material Provided:

Each vial contains approximately 5 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 7.4). The concentration, expressed as µg per µL, is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-3064 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 *Yersinia enterocolitica* subsp. *enterocolitica*, Strain Billups-1803-68, NR-3064."

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.

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References:

1. Bottone, E. J. "Yersinia enterocolitica: The Charisma Continues." *Clin. Microbiol. Rev.* 10 (1997): 257-276. PubMed: 9105754.
2. Snellings, N. J., M. Popek, and L. E. Lindler. "Complete DNA Sequence of *Yersinia enterocolitica* Serotype O:8 Low-Calcium-Response Plasmid Reveals a New Virulence Plasmid-Associated Replicon." *Infect. Immun.* 69 (2001): 4627-4638. PubMed: 11402007.
3. Sonnenwirth, A. C. "Bacteremia With and Without Meningitis Due to *Yersinia enterocolitica*, *Edwardsiella tarda*, *Comamonas terrigena*, and *Pseudomonas maltophilia*." *Ann. N. Y. Acad. Sci.* 174 (1970): 488-502. PubMed: 5278130.

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