

**Genomic DNA from *Yersinia enterocolitica* subsp. *enterocolitica*, Strain WA****Catalog No. NR-3065****For research use only. Not for human use.****Contributor:**

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**Product Description:**

Genomic DNA was isolated from a preparation of *Yersinia enterocolitica* (*Y. enterocolitica*) subsp. *enterocolitica*, strain WA.

*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*.<sup>1</sup> This plasmid encodes a type III secretion system involved in the delivery of virulence proteins that contribute to internalization into host cells.<sup>2</sup>

*Y. enterocolitica* subsp. *enterocolitica*, strain WA was isolated in 1972 from the blood of a human patient by C. Francis Varga, M.D.<sup>3</sup>

NR-3065 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-3065 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 WA, NR-3065."

**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/bmbl5/bmbl5toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.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. Carter, P. B., C. F. Varga, and E. E. Keet. "New Strain of *Yersinia enterocolitica* Pathogenic for Rodents." Appl. Microbiol. 26 (1973): 1016-1018. PubMed: 4588191.

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