

Genomic DNA from *Yersinia enterocolitica* subsp. *enterocolitica*

Note: The strain name on the NR-3066 vial label is incorrect. The source organism for NR-3066 (NR-206) has no strain designation.

Catalog No. NR-3066

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*.

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

This isolate of *Y. enterocolitica* subsp. *enterocolitica* was isolated in 1973 from stream water which infected a human patient.^{3,4}

NR-3066 has been qualified for PCR applications by amplification of approximately 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-3066 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*, NR-3066."

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. Keet, E. E. "*Yersinia enterocolitica* Septicemia. Source of Infection and Incubation Period Identified." N.Y. State J. Med. 74 (1974): 2226–2230. PubMed: 4530913.
4. 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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