

Genomic DNA from *Campylobacter jejuni* subsp. *jejuni*, Strain D3071

Catalog No. NR-3057

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Contributor:
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Product Description:

Genomic DNA was isolated from a preparation of *Campylobacter jejuni* subsp. *jejuni*, strain D3071.

Campylobacter jejuni (*C. jejuni*) is a Gram-negative, slender, curved, motile rod commonly found in animal feces. It is a thermophilic and microaerophilic organism that is sensitive to environmental stresses.¹ *C. jejuni* is among the most frequently identified bacterial causes of human gastroenteritis in the U.S. and other industrialized countries.²

C. jejuni subsp. *jejuni*, strain D3071 (serotype O41:HL27) was isolated from human feces by the Colorado Department of Health. Serotype O41:HL27 has been associated with Guillain-Barré syndrome.³

NR-3057 has been qualified for PCR applications by amplification of ~ 1500 bp of the 16S ribosomal RNA gene.

Material Provided:

Each vial contains 4–6 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-3057 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 *Campylobacter jejuni* subsp. *jejuni*, Strain D3071, NR-3057."

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. Altekruse, S. F., et al. "Campylobacter jejuni—An Emerging Foodborne Pathogen." *Emerg. Infect. Dis.* 5 (1999): 28–35. PubMed: 10081669.
2. Gibreel, A. and D. E. Taylor. "Macrolide Resistance in *Campylobacter jejuni* and *Campylobacter coli*." *J. Antimicrob. Chemother.* 58 (2006): 243–255. PubMed: 16735431.
3. Woodward, D. L. and F. G. Rodgers. "Identification of *Campylobacter* Heat-Stable and Heat-Labile Antigens by Combining the Penner and Lior Serotyping Schemes." *J. Clin. Microbiol.* 40 (2002): 741–745. PubMed: 11880386.
4. Stucki, U., et al. "Identification of *Campylobacter jejuni* on the Basis of a Species-Specific Gene That Encodes a Membrane Protein." *J. Clin. Microbiol.* 33 (1995): 855–859. PubMed: 7790451.
5. Batchelor, R. A., et al. "Nucleotide Sequences and Comparison of Two Large Conjugative Plasmids from Different *Campylobacter* Species." *Microbiology* 150 (2004): 3507–3517. PubMed: 15470128.

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