

Genomic DNA from *Cryptosporidium parvum*, Isolate Iowa

Catalog No. NR-2519

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Contributor:

NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

Product Description:

Genomic DNA was isolated from a preparation of *Cryptosporidium parvum*, isolate Iowa.

Oocysts were produced in calves, concentrated from feces and purified using a standard protocol including salt flotation and bleach treatment. To minimize contamination, Nycodenz and CsCl gradient centrifugation was also performed. Oocysts were excysted in dilute taurocholic acid. Sporozoites and/or oocysts were pelleted and resuspended in lysis buffer prior to genomic DNA isolation.

Material Provided:

Each vial contains approximately 1 µg of genomic DNA in TE buffer. The vial should be centrifuged prior to opening. The concentration in ng per µL is shown on the Certificate of Analysis.

Packaging/Storage:

NR-2519 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 *Cryptosporidium parvum*, Isolate Iowa, NR-2519."

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. 4th ed. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm.

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References:

1. Abrahamsen, M. S., et al. "Complete Genome Sequence of the Apicomplexan, *Cryptosporidium parvum*." Science 304 (2004): 441–445. PubMed: 15044751. GenBank: NC_006980 to NC_006987.
2. Arrowood, M. J. and K. Donaldson. "Improved Purification Methods for Calf-Derived *Cryptosporidium parvum* Oocysts Using Discontinuous Sucrose and Cesium Chloride Gradients." J. Eukaryot. Microbiol. 43 (1996): 89S. PubMed: 8822880.
3. Girouard, D., et al. "Failure to Propagate *Cryptosporidium* spp. in Cell-Free Culture." J. Parasitol. 92 (2006): 399–400. PubMed: 16729703.

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