

Cryptosporidium parvum* Probe 127 in pHC1, Recombinant in *Escherichia coli

Catalog No. ARP-1559

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Lot No. 08/28/92 (F3-8C)

Manufacturing Date: 28AUG1992

For research use only. Not for human use.

Contributor:

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Manufacturer:

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Product Description:

ARP-1559 is an *Escherichia coli* (*E. coli*) DH5α stock containing a pUC18 clone (pHC1) with a 2.3 kb *HindIII* fragment derived from *Cryptosporidium parvum* (*C. parvum*) genomic DNA isolated from purified oocysts. The 2.3 kb fragment includes a 452 base pair PCR amplification target site specific for *C. parvum*. This clone can be used as a positive control for detection of *C. parvum* by PCR.¹

The pHC1 plasmid expresses the ampicillin selectable marker under the control of a *P. falciparum* calmodulin promoter. The plasmid is approximately 4520 base pairs.

Material Provided:

Each vial of ARP-1559 contains approximately 0.5 mL of *E. coli* DH5α with pHC1 in media plus cryopreservative.

Packaging/Storage:

ARP-1559 was packaged aseptically in plastic cryovials. The product is provided frozen on dry ice and should be stored at -70°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Growth Conditions:

Media:

Luria Bertani (LB) broth or agar

pHC1 contains the gene required for ampicillin (Amp) resistance. The recommended concentration of Amp in culture is 50 µg/mL.

Incubation:

Temperature: 37°C

Atmosphere: Aerobic

Propagation:

Incubate the tube, slant and/or plate at 37°C for 1 day.

Citation:

Acknowledgment for publications should read "The following reagent was provided by the NIH AIDS Reagent Program for

distribution by BEI Resources, NIAID, NIH: *Cryptosporidium parvum* Probe 127, Recombinant in *Escherichia coli*, ARP-1559, contributed by Dr. Marc A. Laxer."

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, 2009; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

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References:

1. Laxer, M. A., B. K. Timblin and R. J. Patel. "DNA Sequences for the Specific Detection of *Cryptosporidium parvum* by the Polymerase Chain Reaction." Am. J. Trop. Med. Hyg. 45 (1991): 688-694. PubMed: 1763795.

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