

Product Information Sheet for NR-51498

Plasmid Containing 18S Ribosomal RNA Gene Fragment from *Cyclospora* cayetanensis

Catalog No. NR-51498

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

An approximately 1000 base pair fragment of the small subunit ribosomal RNA gene (18S rRNA gene) from *Cyclospora cayetanensis* (*C. cayetanensis*) was amplified by nested PCR and cloned into vector pCR™2.1-TOPO™ (Invitrogen™).¹.² NR-51498 may be used in the development of diagnostic assays for the detection of *C. cayetanensis*.² The size of the plasmid is approximately 5000 base pairs and contains the gene required for ampicillin. NR-51498 was produced in *Escherichia coli* (*E. coli*) and extracted.

Material Provided:

Each vial contains 0.2 µg to 3.5 µg of plasmid DNA in buffer. The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-51498 was packaged aseptically in screw-capped 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 BEI Resources, NIAID, NIH: Plasmid Containing 18S Ribosomal RNA Gene Fragment from *Cyclospora cayetanensis*, NR-51498."

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. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

- 1. Arrowood, M., Personal Communication.
- Murphy, H. R., S. Lee and A. J. da Silva. "Evaluation of an Improved U.S. Food and Drug Administration Method for the Detection of *Cyclospora cayetanensis* in Produce Using Real-Time PCR." <u>J. Food. Prot.</u> 80 (2017): 1133-1144. PubMed: 28590822.

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