Quantitative Synthetic DNA from *Cyclospora cayetanensis*

PRA-3000SD™

Description

Quantitative Synthetic DNA from *Cyclospora cayetanensis* can be used for assay development, verification, and validation as well as monitoring of day-to-day test variation and lot-to-lot performance of molecular-based assays. The quantitative format allows for the generation of a standard curve for quantitative PCR (qPCR) to determine protozoan load and for other molecular biology applications. Preparation includes the full 18S rRNA gene sequence, and full ITS1 and ITS2 sequences.

Organism: *Cyclospora cayetanensis*

Genetic target: Preparation includes the full 18S rRNA gene sequence, and full ITS1 and ITS2 sequences.

Specification range: ≥ 1 x 10^5 to 1 x 10^6 copies/µL

Volume: 100 µL

Shipping information:

Shipped in a proprietary stabilization matrix

Storage Conditions

Product format: Frozen

Storage conditions: -20°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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The synthetically engineered sequence of the product constitutes intellectual property belonging to ATCC. Unauthorized use, including sequencing, modification, or reverse-engineering, of the product is expressly prohibited without prior ATCC consent.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Handling Procedures

1. Thaw the vial at room temperature and immediately place on ice. Avoid exposing the synthetic DNA to repeated freeze-thaw cycles as it may result in degradation of the DNA and variation in copy number.
2. Gently mix the sample to ensure an even distribution of material.
3. Briefly centrifuge the tube before opening to ensure all liquid is at the bottom.

Notes

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Aliquotting is highly recommended to avoid multiple freeze-thaws

The following primers and probe can be used with this nucleic acid preparation Ref Varma M, et al. Detection of *Cyclospora cayetanens* using a quantitative real-time PCR assay. J. Microbiol. Methods 53(1): 27-36, 2003. :

Forward primer: TGAACTCATTGGACTGACCAGC

Reverse primer: ACTTTTGCATCCTTTAGAGGGCT

Probe: FAM-CAACTTTCCGACCAGCTCCGCGAA-BHQ1

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Quantitative Synthetic DNA from *Cyclospora cayetanensis* (ATCC PRA-3000SD)

References

References and other information relating to this material are available at www.atcc.org.

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