



# Quantitative Synthetic DNA from *Giardia lamblia*

PRA-3006SD™

## Description

Quantitative Synthetic DNA from *Giardia lamblia* 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. Preparation includes fragments from the 18S ribosomal RNA, beta-giardin, triosephosphate isomerase, and glutamate dehydrogenase regions.

**Organism:** *Giardia lamblia*

**Genetic target:** Preparation includes fragments from the 18S ribosomal RNA, beta-giardin, triosephosphate isomerase, and glutamate dehydrogenase regions.

**Specification range:**  $\geq 1 \times 10^5$  to  $1 \times 10^6$  copies/ $\mu$ L

**Volume:** 100  $\mu$ L

### Shipping information:

Shipped in a proprietary stabilization matrix

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -20°C or colder

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## 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.

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.

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## **BSL 1**

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## **Certificate of Analysis**

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## **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.
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## **Notes**

Aliquoting is highly recommended to avoid multiple freeze-thaws, which can damage the synthetic DNA.

The following primers and probe can be used with this nucleic acid preparation:

Forward primer: CGATTGTGTACAGGCCGATTG

Reverse primer: CAGGAGGGCATGTCGATGTAG

Probe: FAM-TGTCCCGTCTCAGGTGGTCTATGTTCCA-BHQ1

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Quantitative Synthetic DNA from *Giardia lamblia* (ATCC PRA-3006SD)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: [tech@atcc.org](mailto:tech@atcc.org) or contact your local distributor

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