

Quantitative Synthetic Treponema pallidum DNA

BAA-2642SD™

Description

Quantitative Synthetic Treponema pallidum DNA can be used for assay development, verification, validation, 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 bacterial load. Preparation includes fragments from the polA, 23S gene, 16S gene, flaA, 47kDa protein gene, and bmp.

Organism: Treponema pallidum (Schaudinn and Hoffmann) Schaudinn

Genetic target: Preparation includes fragments from the polA, 23S gene, 16S gene, flaA, 47kDa protein

gene, and bmp.

Specification range: $\ge 1 \times 10^5$ to 1×10^6 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.

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.



BSL₁

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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.

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

Aliquotting is highly recommended to avoid multiple freeze-thaws.

The following primers and probe can be used with this nucleic acid preparation (Koek AG, et al. Specific and sensitive diagnosis of syphilis using a real-time PCR for *Treponema pallidum*. Clin. Microbiol. Infect.

12(12): 1233-1236, 2006. PubMed: **17121633**):

Forward primer: GGTAGAAGGGAGGGCTAGTA

Reverse primer: CTAAGATCTCTATTTCTATAGGTATGG

Probe: ACACAGCACTCGTCTTCAACTCC

Material Citation

If use of this material results in a scientific publication, please cite the material in the following man. Quantitative Synthetic *Treponema pallidum* DNA (ATCC BAA-2642SD)

References

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

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