



# Quantitative Synthetic DNA from Human papillomavirus 18

VR-3241SD™

## Description

Quantitative synthetic DNA for Human papillomavirus 18 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 viral load. This preparation includes the full-length genome of human papillomavirus type 18 derived from a plasmid clone (ATCC 45152D).

**Organism:** Human papillomavirus 18, HPV-18

**Genetic target:** Preparation includes full length genome of human papillomavirus type 18 derived from a plasmid clone (ATCC® 45152D).

**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:** -70°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.

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Product Sheet

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

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.

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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

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Aliquoting is highly recommended to avoid multiple freeze-thaws.

The following primers and probe can be used with this nucleic acid preparation [Ref](#) Seaman WT, et al. Detection and quantitation of HPV in genital and oral tissues and fluids by real time PCR. Virol. J. 7: 194, 2010. :

Forward primer: GCATAATCAATTATTTGTTACTGTGGTAGATACCACT

Reverse primer: GCTATACTGCTTAAATTTGGTAGCATCATATTGC

Probe: FAM-AACAATATGTGCTTCTACACAGTCTCCTGT-BHQ

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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 Human papillomavirus 18 (ATCC VR-3241SD)

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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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