Quantitative Synthetic DNA from Hepatitis B virus

VR-3232SD™

Description
Quantitative synthetic DNA for Hepatitis B virus 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 fragments from the highly conserved precore, core, P, S, and X regions.

Organism: Hepatitis B virus, Hepatitis B virus
Genetic target: Preparation includes fragments from the highly conserved precore, core, P, S, and X regions.
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.
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
Aliquotting is highly recommended to avoid multiple freeze-thaws.

The following primers and probe can be used with this nucleic acid preparation Ref
Forward: GTCCTCCAATTTGTCTGG
Reverse: TGAGGCAATAGCAGCAGGAT
Probe: CTGGATGTGTCTGCGGCGTTTTATCAT

Material Citation
If use of this material results in a scientific publication, please cite the material in the following manner: Quantitative Synthetic DNA from Hepatitis B virus (ATCC VR-3232SD)

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

Warranty
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