

SHENTEK

PCV-1 Plasmid DNA Standard

User Guide

Version: A/0

For Research Use Only

Product No.: 1506744-C01

Huzhou Shenke Biotechnology Co., Ltd.

(IMPORTANT: Please read this document carefully before experiment.)

■ Product description

The PCV-1 Plasmid DNA Standard is a linearized plasmid DNA containing the target sequence of the PCV-1 virus, designed for use with the corresponding SHENTEK® PCV-1 Detection Kit (Product No.: 1506744).

■ Kit contents and storage

Table 1. Kit components and storage

Reagent	Part No.	Quantity	Storage
PCV-1 Plasmid DNA Standard	NNA074	Lyophilized Powder, 1 tube	-20°C
ddH ₂ O	NND010	1 mL × 1 tube	-20°C

The kit components should be stored at -20°C for up to 24 months. Please check the expiration date on the labels.

Note: According to USP <659>, items with recommended storage temperatures not exceeding -20°C shall be stored within ± 10°C (-30°C to -10°C). Short-term storage below -30°C is acceptable when supported by stability data.

■ Procedure

1. The PCV-1 Plasmid DNA Standard is provided as lyophilized powder. For initial use, first centrifuge the tube at 10,000 rpm for 1 minute. Carefully add 55 µL ddH₂O (NND010) to the bottom of the tube. Invert to mix well, and centrifuge briefly for 3 - 5 seconds, repeat three times to ensure the lyophilized powder is fully dissolved. Then let the solution stand for 10 minutes before use. The concentration of PCV-1 Plasmid DNA Standard is indicated on the label of tube.

Note: Use centrifuge tubes certified for high-speed centrifugation to ensure safe operation.

2. Dilute the PCV-1 Plasmid DNA Standard sequentially with Nuclease-Free Water to the desired concentration. Then, follow the qPCR preparation protocol outlined in the user guide of SHENTEK® PCV-1 Detection Kit.

3. For the Positive Control: It is recommended to perform a 10-fold serial dilution of the PCV-1 Plasmid DNA Standard with Nuclease-Free Water to achieve a concentration range of 1×10^3 - 1×10^4 copies/ μ L.
4. For the Limit of Detection Test: It is recommended to prepare a 10-fold serial dilution of the PCV-1 Plasmid DNA Standard with Nuclease-Free Water to a concentration below the intended detection limit.

■ Attentions

1. This product is intended for research use only and is not used for clinical diagnosis or treatment.
2. Please store under specified conditions. Once reconstituted, use the standard within one year and avoid repeated freeze-thaw cycles.
3. This product is only suitable for evaluating the detection performance of SHENTEK[®] PCV-1 Detection Kit.
4. For your safety and health, please use the product in a biosafety cabinet and wear lab clothes and disposable gloves.

Effective date: 14 Jan. 2026

Support & Contact

The logo for SHENTEK, with 'SHEN' in blue and 'TEK' in green.

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