



Vero Residual DNA Detection Kit

Vero Residual DNA Detection Kit is designed to detect Vero Residual DNA in biological products during production.

Catalog number: ARG83109

Package: 100 tests

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INTRODUCTION

Vero Residual DNA Detection Kit is designed for the quantitative detection of residual Vero host cell DNA in intermediates, semi-finished products and finished products of various biological products.

Vero Residual DNA Detection Kit adopts the principle of Taq-man probe to quantitatively detect residual Vero DNA in samples. The kit is a rapid, specific and reliable device, with the minimum detection limit reaching fg level.

PRINCIPLE OF THE ASSAY

Vero Residual DNA Detection Kit is a test kit that uses quantitative polymerase chain reaction (qPCR) technology to detect residual Vero DNA.

Vero Residual DNA Detection Kit includes a set of primers and probes that can amplify and detect specific sequences of Vero DNA. qPCR is a PCR technique that simultaneously amplifies and detects DNA by monitoring the accumulation of product with the use of a fluorescent dye. This kit has high specificity and sensitivity, is easy to use, and suitable in laboratories.

MATERIALS PROVIDED & STORAGE INFORMATION

Store the unopened kit at -20 °C. Use the kit before expiration date.

Component	Quantity	Storage information
Vero DNA Standard (A-F) A: 300 (pg/μl) B: 30 (pg/μl) C: 3 (pg/μl) D: 0.3 (pg/μl) E: 0.03 (pg/μl) F: 0.003 (pg/μl)	6 X 300 μl	-20°C (protect from light)
Vero Primer & probe mix	550 μl	-20°C (protect from light)
2x qPCR Reaction Buffer	1.6 ml	-20°C (protect from light)
DNA Dilution buffer	3 x 1 ml/vials	-20°C (protect from light)

MATERIALS REQUIRED BUT NOT PROVIDED

- PCR machine
- Pipettes and pipette tips
- DNase/RNase-Free Water
- PCR tube

TECHNICAL HINTS AND PRECAUTIONS

- Wear protective gloves, clothing, eye, and face protection especially while handling blood or body fluid samples.
- Store the kit at -20°C at all times.
- All reagents must be kept on ice during the entire experiment.
- Once the assay has been started, all steps should be completed without interruption.
- It is highly recommended that the standards and samples be assayed in

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triplicates.

- Change pipette tips between the addition of different reagent or samples.

ASSAY PROCEDURE

- 1 Prepare qPCR mix buffer:

2x qPCR Reaction Buffer	15 μ l
Vero Primer and probe mix	5 μ l
Total	20 μl (1 wells)

- 2 Mix 20 μ l qPCR mix buffer with 10 μ l standard (A-F) / sample / blank in PCR tube. The final volume should be 30 μ l.
- 3 Decontamination: 50°C, 2 min.
- 4 Initial denaturation: 95°C, 20s.
- 5 PCR cycle:
95°C, 3 sec; 60°C, 30 sec, for **40 cycle, 30 μ l**.

EXAMPLE OF TYPICAL STANDARD CURVE

The following data is for demonstration only and cannot be used in place of data generations at the time of assay.

