E1A and SV40LTA Residual DNA Detection Kit

E1A and SV40LTA Residual DNA Detection Kit is designed to detect residual E1A and SV40LTA DNA in biological products during production.

Catalog number: ARG83098

Package: 100 tests

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INTRODUCTION

E1A and SV40LTA Residual DNA Detection Kit is designed for the rapid and specific detection of residual E1A and SV40LTA DNA derived from host cell (e.g., HEK293T cell) in biological products.

E1A and SV40LTA Residual DNA Detection Kit adopts the fluorescent probe method and multiplex PCR method. The kit is a rapid, specific and reliable device, with the minimum detection limit reaching 40copies/μL.

PRINCIPLE OF THE ASSAY

E1A and SV40LTA Residual DNA Detection Kit is a test kit that uses quantitative polymerase chain reaction (qPCR) technology to detect residual E1A and SV40LTA DNA.

E1A and SV40LTA Residual DNA Detection Kit includes a set of primers and probes that can amplify and detect specific sequences of E1A and SV40LTA 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
E1A and SV40LTA DNA Standard (A-F) A: 4X10^1 (copies/µl) B: 4X10^2 (copies/µl) C: 4X10^3 (copies/µl) D: 4X10^4 (copies/µl) E: 4X10^5 (copies/µl) F: 4X10^6 (copies/µl)	6 X 300 µl	-20°C
E1A and SV40LTA Primer & probe mix	550 µl	-20°C (protect from light)
2x qRCR Reaction Buffer	1.6 ml	-20°C
DNA Dilution buffer	3 x 1 ml/vails	-20°C

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

ASSAY PROCEDURE

1 Prepare qPCR mix buffer:

2x qRCR Reaction Buffer	15 µl
E1A and SV40LTA Primer and probe mix	5 µl
Total	**20 µl (1 wells)**

2 Mix 20µl qPCR mix buffer with 10µl standard (A-F) / sample / blank in PCR tube. The final volume should be 30 µl.

3 Decontamination: 50°C, 2 min.

4 Initial denaturation: 95°C, 20 sec.

5 PCR cycle:

95°C, 3 sec; 60°C, 30 sec, for **40 cycle, 30 µl.**

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.