CHO Residual DNA Detection Kit

CHO Residual DNA Detection Kit is designed to detect residual Chinese hamster ovary Residual DNA in biological products during production.

Catalog number: ARG83108

Package: 100 tests

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INTRODUCTION

CHO Residual DNA Detection Kit is designed for the quantitative detection of residual Chinese hamster ovary DNA content in intermediates, semi-finished products and finished products of various biological products.

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

PRINCIPLE OF THE ASSAY

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

CHO Residual DNA Detection Kit includes a set of primers and probes that can amplify and detect specific sequences of CHO 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
CHO 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)
CHO Primer & probe mix	550 µl	-20°C (protect from light)
2x qRCR Reaction Buffer	1.6 ml	-20°C (protect from light)
DNA Dilution buffer	3 x 1 ml/vails	-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

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
CHO 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, 20s.

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.