



# Quantitative CHO Genomic DNA

Version:2.0

Latest update: 2024.02.01

## Instruction Manual

Cat. No. QCGD

Research Use Only. Not for Use in Diagnostic Procedures.

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# 1. Product Information

## Introduction

The Quantitative CHO Genomic DNA contains pure, quantified genomic DNA of CHO cells without modification. This product is designed to serve as a standard for quantifying CHO cell line DNA through serial dilutions. The resulting standard curve facilitates the quantification of residual CHO DNA in samples. In addition to its primary purpose as a quantification standard, this product can be employed to assess the sensitivity of CHO DNA detection or serve as a control for tests requiring CHO DNA detection.

Supplied at a final concentration of 30ng/μl, determined through fluorescence analysis and digital PCR. To quantify samples prepared using this product, utilize Real-Time PCR with the ResidualQSearch™ Plus CHO DNA Quantitation Kit.

## 2. Contents and Storage

### Materials Provided

Label	Cat. No.	Amount
CHO Genomic DNA Standard (30ng/μl)	QCGD	40 μl

### Storage

Upon receipt, store at -20°C.

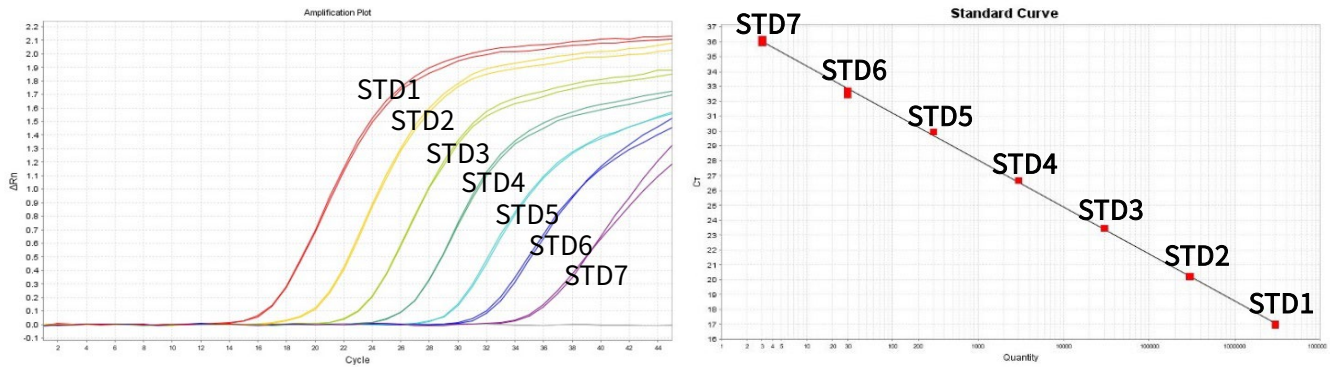
[Note]

- 1) Repeat thawing reduces quality of product.
- 2) If frequent freeze and thaw is needed, aliquot the products and use in order.
- 3) Check the label on the product for details

# 3. Results

## Amplification Result

Tested with ResidualQSearch™ Plus CHO DNA Quantitation Kit (Cat. No. CHOP-100, CellSafe)



DNA Standard	DNA Concentration (fg/reaction)
STD1	3,000,000
STD2	300,000
STD3	30,000
STD4	3,000
STD4	300
STD6	30
STD7*	3

## Absolute Quantification with dPCR

QCGD was quantified using the single copy gene in digital PCR to determine the amount of CHO gDNA.

