

# Residual DNA/RNA Analysis Kits

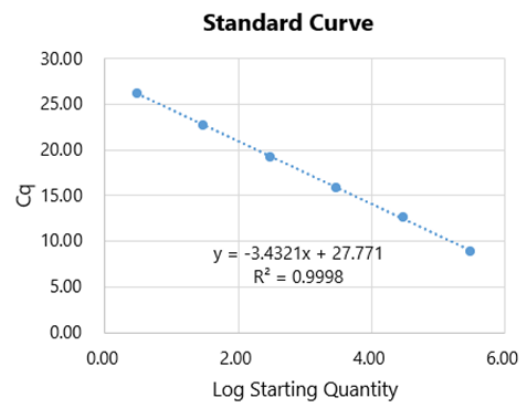
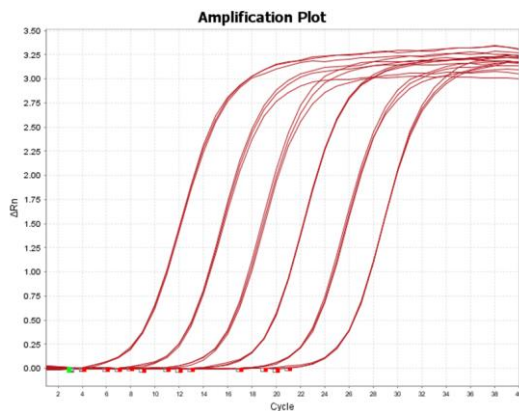


The production of recombinant proteins, antibody drugs, vaccines, cell and gene therapeutic drugs, and other biological products relies heavily on cell-based production systems such as bacteria, yeast, animal or human cells. The final products can contain residual amounts of host cell nucleic acids (DNA and RNA), which presents potential oncogenic or immunogenic risks to patients and is the top priority of quality control for the final product. It is crucial to monitor and control residual DNA and RNA during the manufacturing process of therapeutic biologics and in the final products.

Regulatory authorities like FDA state clear and strict limits on the content and length of residual DNA in the final product: not exceeding 10 ng/dose, with a size of no more than 200 base pairs.

## Products

**Creative Biogene** provides a series of residual DNA quantification and size analysis kits for different host cells, including but not limited to human cells, HEK293 cell, CHO cell, Vero cell, NS0 cell, MDCK cell, *E. coli*, and *Pichia pastoris*. The kits are designed for accurate quantitative analysis of residual host cell DNA in different products.



## Services



**Creative Biogene** offers residual DNA and/or RNA testing services for different production systems.

- Custom assay development for new hosts
  - Assay development: standard preparation, primer design and optimization, reaction optimization.*
  - Method validation: linearity, accuracy, precision, recovery, specificity etc.*
- Sample suitability test
  - Validation: LOD, LOQ, accuracy, precision, recovery etc.*
- Quantification analysis of residuals in samples




We highly recommend clients to develop a more suitable quantification assay based on their own production systems, so as to achieve better performance and specificity.

## Product List









### Sample Preparation Kits

Cat. NO.	Product Name
RDQK-07	Residual DNA Sample Prep Kit
RDQK-14	Residual DNA Sample Prep Kit for Vaccine  

### Residual DNA Size Analysis Kits

Cat. NO.	Product Name
RDQK-08	Residual DNA Size Analysis Kit-Vero
RDQK-11P	Residual DNA Size Analysis Kit for Human cell Plus   
RDQK-12	Residual DNA Size Analysis Kit-HPV18 E6/E7
RDQK-16	Residual DNA Size Analysis Kit-CHO <b>NEW</b>
RDQK-17	Residual DNA Size Analysis Kit- <i>E.coli</i> <b>NEW</b>
RDQK-21	Residual DNA Size Analysis Kit-BHK <b>NEW</b>
RDQK-22	Residual DNA Size Analysis Kit- <i>Pichia Pastoris</i> <b>NEW</b>

### Residual DNA Quantification Kits

Cat. NO.	Product Name
RDQK-01	Residual DNA Quantification Kit- <i>E.coli</i> 
RDQK-02	Residual DNA Quantification Kit- <i>Pichia Pastoris</i>
RDQK-03	Residual DNA Quantification Kit-CHO  
RDQK-04	Residual DNA Quantification Kit-Vero 
RDQK-05	Residual DNA Quantification Kit-NS0
RDQK-06	Residual DNA Quantification Kit-MDCK
RDQK-09P	Residual DNA Quantification Kit for Plasmids Plus   
RDQK-10	Residual DNA Quantification Kit for Human cell 
RDQK-13	Residual DNA Quantification Kit- <i>Hansenula anomala</i>
RDQK-15	Residual DNA Quantification Kit-Sf9/AcNPV
RDQK-18	Residual DNA Quantification Kit- <i>Saccharomyces cerevisiae</i> <b>NEW</b>
RDQK-19	Residual DNA Quantification Kit-HEK293 <b>NEW</b>
RDQK-20	Residual DNA Quantification Kit-BHK <b>NEW</b>
RDQK-23	Residual DNA Quantification Kit-Bovine <b>NEW</b>
RDQK-24	Residual DNA Quantification Kit-Pig <b>NEW</b>

### Residual RNA Quantification Kits

Cat. NO.	Product Name
RRQK-01	Residual RNA Quantification Kit- <i>E.coli</i> <b>NEW</b>
RRQK-02	Residual RNA Quantification Kit-293T <b>NEW</b>

More products are coming soon...



## Residual DNA/RNA Analysis Kits

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<https://www.creative-biogene.com/products/residual-dna-quantification-kit.html>