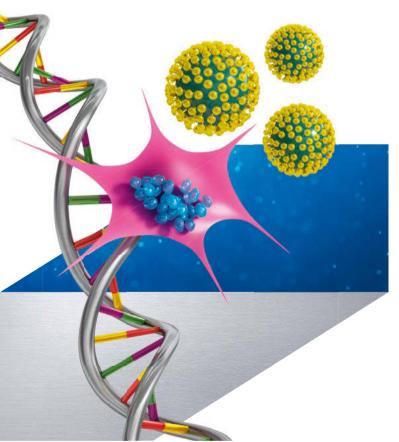


# Residual DNA E. coli Kit

# High sensitivity for optimal product safety

The removal of host cell impurities is a critical step in the production of biopharmaceutical products.

The Roche Residual DNA *E. coli* Kit is designed and validated for detection of residual *E. coli* DNA in biopharmaceutical products (protein solution, antibodies, etc.) as required by regulatory authorities.



Based on proven real-time qPCR technology, this kit makes detection of residual DNA from *E. coli* bacteria fast and reliable\*. It was developed to meet sensitivity requirements defined by WHO and FDA (10 ng *E. coli* DNA per therapeutic dose).

# Achieve high sensitivity and specificity through improved tests\*

- Linearity: 10 µg/ml to 5 pg/ml
- Lower Quantitation Limit: 5 pg/ml (50 fg/reaction)
- Lower Detection Limit: 1 pg/ml (10 fg/reaction)
- No cross-reactivity with unrelated DNA

# Rely on a robust test procedure for a wide range of sample types

- Suitable for different matrices and a broad range of sample types from both in-process samples to bulk drug substances
- High lot-to-lot consistency of kit reagents, leading to reproducible results

# Save time with proven real-time qPCR technology

Time to result <5 hours\*</p>

#### Characteristics

#### Residual DNA E. coli Kit

Sample prep	Manual protocol optimized for excellent DNA recovery (min 80%).
Control concept	DNA stock solution for preparation of extraction controls and internal controls for PCR performance included in kit.
All reagents included	Supplied and ready-to-use reagents jump start your assay.
High quality	Roche is certified according to ISO 13485. Change notification available upon request.





#### **Ordering information**

#### **Products**

Residual DNA E. coli Kit

QC Sample Preparation Kit

### Catalog number

07 728 735 001

08 146 829 001

# Additional Quality Control or In-Process Manufacturing Kits

MycoTOOL Mycoplasma Real-Time PCR Kit (160 PCR reactions)

06 495 605 001

# MycoTOOL PCR Mycoplasma Detection Kit (Block PCR analysis via gel)

MycoTOOL Mycoplasma Detection Prep Kit MycoTOOL Mycoplasma Detection

05 184 240 001

05 184 592 001

Residual DNA CHO Kit

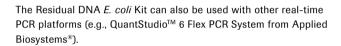
Amplification Kit

07 427 689 001

#### Instrument

LightCycler® 480 Instrument II

05 015 278 001

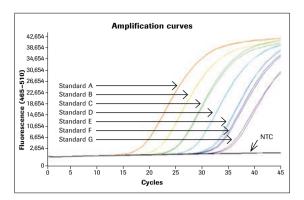


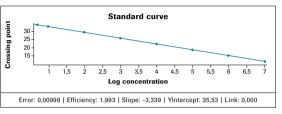
# Regulatory disclaimer

For use in quality control/manufacturing process only. The LightCycler® 480 Instrument is for life science research only. Not for use in diagnostic procedures

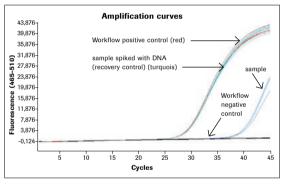
#### Trademark

LIGHTCYCLER, HIGH PURE, MYCOTOOL are trademarks of Roche. All other product names and trademarks are the property of their respective owners.





**Figure 1:** Typical analysis results obtained with Standard A (100 000 pg/ml) to G (1 pg/ml). Standard curve is calculated to Standard F (5 pg/ml LOQ) and should be linear. PCR efficiency should be 1.85 or higher.



**Figure 2:** Typical results of a DNA spiked sample, a workflow positive and workflow negative controls. DNA recovery = minimum of 80% required.

#### custombiotech.roche.com

#### Please contact your local CustomBiotech representative

# Europe, Middle East, Africa, Latin America

Phone +49 621 759 8580 Fax +49 621 759 6385 mannheim.custombiotech@roche.com

#### **United States**

Phone +1 800 428 5433, ext. 14649 (toll-free) Fax +1 317 521 4065 custombiotech.ussales@roche.com

#### Canada

Phone +1 450 686 7050 Fax +1 450 686 7012 custombiotech.can@roche.com

#### Japan

Phone +81 3 6634 1046 Fax +81 3 5479 0585 japan.custombiotech@roche.com

#### **Asia Pacific**

Phone +65 6371 6638 Fax +65 6371 6601 apac.custombiotech@roche.com

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