

About Quantabio

Quantabio is a leading provider of advanced DNA and RNA amplification reagents for the most demanding molecular testing applications in applied, translational, and life science research. Our team leverages decades of experience in developing pioneering amplification technologies to deliver cutting-edge products to researchers focused on critical, PCR, qPCR, and Next-Generation Sequencing (NGS) applications. Quantabio offers a growing portfolio of products through its international sales operations, as well as a global network of distributors and commercial service providers.



- Founded in 2001 (acquired by QIAGEN in 2011)
- Headquartered in Beverly, MA, USA
- ISO 9001:2015 certified by TÜV Rheinland
- Products cited in over 3,500 peer reviewed publications
- Cited in reference protocols including Centers for Disease Control and Prevention and World Health Organization
- Technical team with advanced scientific degrees offering support for challenging applications

Solutions for better workflows

Sample
Preparation

Reverse
Transcription

PCR

Real-Time
qPCR

Next-
Generation
Sequencing

Q
qPCR
Instrument

Unique Technologies

- ToughMix Chemistry – amplification from crude extracts
- Single tube qPCR and NGS solutions – easy workflows
- Enhanced stability – multi-day storage at room temperature
- Ultra Fast Long Range Polymerase – amplify up to 1 kb/sec. +20 kb targets
- Thermostable Reverse Transcriptase – RT activity up to 65°C

Our Recipe for Success



Experience the Amplification Difference. ToughMix.

Quantabio ToughMix® chemistry is the trade secret difference to our mastermix formulations. It has helped scientists for more than 20 years to amplify and analyze difficult/challenging samples by overcoming common PCR inhibitors. Widely used across a multitude of molecular biology applications, ToughMix formulations can be used directly from crude lysates as well as following an extraction protocol.

What can ToughMix do for you

- Work directly with crude lysates
- Avoid expensive and time-consuming purification steps
- Compatible with a wide range of probe designs and detection chemistries
- High quality Taq polymerase-free of residual host *E.coli*
- Neutralize problem causing inhibitors present in crude samples

Inhibitors	Common Source
Polysaccharides	Plants, seeds, stool
Heme, hemoglobin	Blood
Humic acid	Soil, plant material
Melanin	Skin, hair

Perfecta Multiplex qPCR ToughMix

5X concentrated qPCR master mix for detection of up to 5 targets.

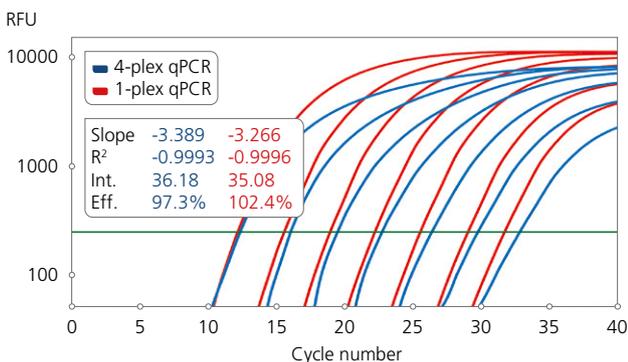


Figure 1 Equivalent detection of Log-fold serial dilutions of plasmid containing GAPDH gene in singleplex or 4-target multiplex qPCR.

UltraPlex 1-Step ToughMix

1-Step RT-qPCR master mix for sensitive, multiplex detection from crude lysates.

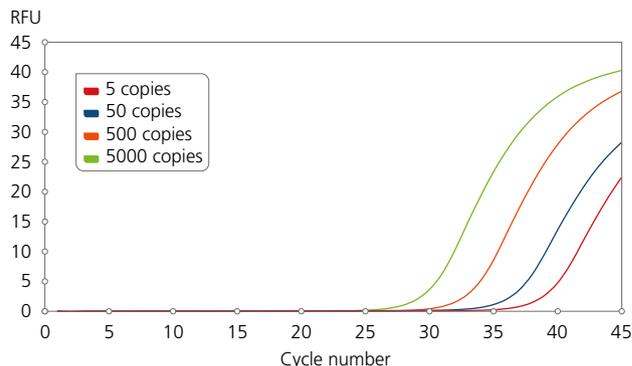
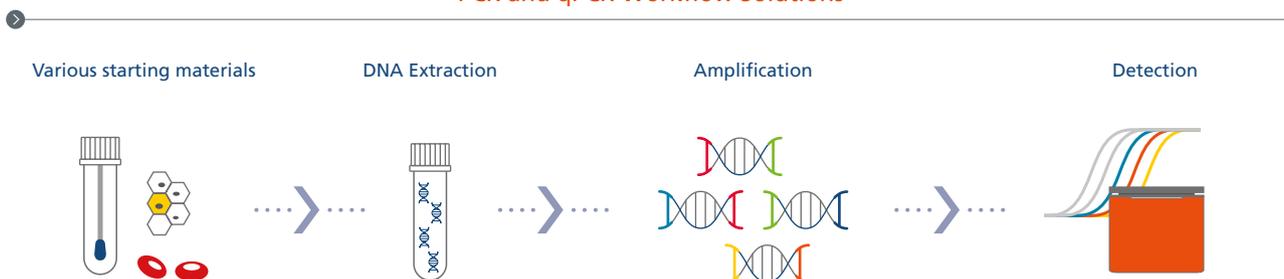


Figure 2 Extraction-free RT-qPCR detection of SARS-CoV-2 RNA.

PCR & qPCR: Engineered for difficult samples

Quantabio PCR and qPCR reagents combine a stringent, ultrapure antibody hotstart with performance engineered DNA polymerase to ensure specific and efficient primer extension. Endpoint PCR mixes are available in a variety of optimized formulations designed to support specific PCR applications with various starting materials. Quantabio quantitative real-time PCR reagents are available for both DNA and RNA targets. All mixes have been optimized for maximum sensitivity to enable reliable quantification of very low template input quantities.

PCR and qPCR Workflow Solutions



NGS: simple, reliable workflows

Quantabio offers complete solutions for library preparation, amplification, purification and quantification used on Illumina next generation sequencing platforms. High quality reagents deliver unmatched efficiency and robust performance to ensure reliable and reproducible sequencing results while reducing total sequencing costs. These reagents in kit formats, are highly flexible, allowing library preparation from various inputs including gDNA, cDNA, FFPE DNA and amplicons, for a variety of applications including whole genome, targeted and metagenomic sequencing.

sparQ NGS Workflow Solutions

