

qScript XLT One-Step ToughMixes

TOUGH TESTED RT-qPCR

qScript XLT One-Step RT-qPCR ToughMix is a ready-to-use, highly sensitive master mix for reverse transcription quantitative PCR (RT-qPCR) of RNA templates.

It is a versatile and robust RT-qPCR reagent that provides maximum sensitivity and PCR efficiency with a variety of fluorogenic probe chemistries, including TaqMan® hydrolysis probes.



Quanta
BIOSCIENCES™

FEATURES AND BENEFITS

- **Tough Tested**—Overcomes common inhibitors including polysaccharides, heme/hemoglobin, humic acid, melanin
- **Flexible**—Use fast or standard qPCR cycling conditions
- **Broad dynamic range**—Reliable data from your precious samples every time
- **Multiplexing enabled**—Supports detection of up to four targets

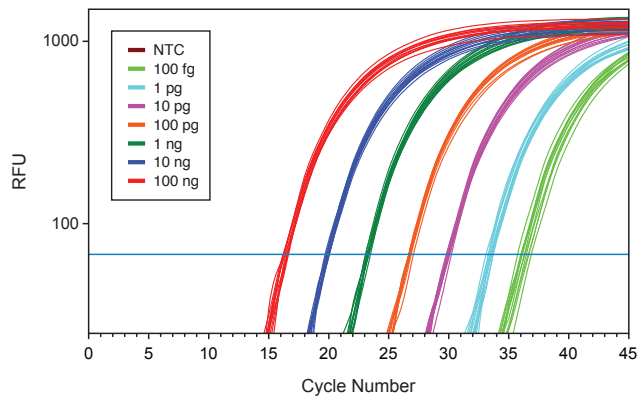
DESCRIPTION

qScript XLT One-Step RT-qPCR ToughMix is a ready-to-use, highly sensitive master mix for reverse transcription quantitative PCR (RT-qPCR) of RNA templates using hybridization probe detection chemistries such as TaqMan 5'-hydrolysis probes on real-time PCR systems that do not require a passive reference dye. First-strand cDNA synthesis and PCR amplification are carried out in the same tube without opening between procedures.

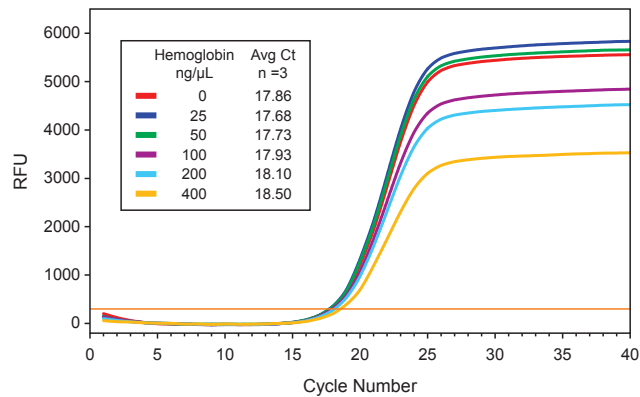
It is ideal for highly sensitive quantification of RNA viruses or low abundance RNA targets as well as high throughput gene-expression studies. The system has been optimized to deliver maximum RT-PCR efficiency, sensitivity, and specificity in reduced reaction volumes and fast cycle times. qScript XLT One-Step RT-qPCR ToughMix contains all required components for RT-qPCR except RNA template and probe. It is compatible with all dual-labeled probe chemistries.

qScript XLT is an engineered M-MLV reverse transcriptase with reduced RNase H activity and improved activity and stability at higher temperatures.

The use of higher temperatures (50 to 55°C) for the first-strand step of one-step RT-qPCR provides higher specificity for primer annealing and disruption of RNA secondary structure that can interfere with cDNA synthesis. qScript XLT One-Step RT-qPCR ToughMix is highly resistant to PCR inhibitors. A key component of the ToughMix is an ultra pure, highly processive thermostable DNA polymerase that is combined with high avidity monoclonal antibodies. This provides an extremely stringent automatic hot-start that minimizes the potential for primer-dimer and other non-specific PCR artifacts. The light blue color of the AccuVue™ tracer dye simplifies reaction assembly in white, or clear, plates and helps to minimize pipetting or mixing errors. It does not interfere with qPCR performance or affect the stability of the product.



Broad linear dynamic range, low Limit of Detection



Enables performance in the presence of inhibitors

INSTRUMENT COMPATIBILITY

Different real-time PCR systems employ different strategies for the normalization of fluorescent signals and correction of well-to-well optical variations. It is critical to match the appropriate qPCR reagent to your specific instrument. The qScript XLT One-Step RT-qPCR Kit does not contain a passive reference dye.

ORDERING INFORMATION

PRODUCT

qScript XLT 1-Step RT-qPCR ToughMix

Instrument Compatibility

Roche LightCycler® 480, Opticon™, Chromo4™, Corbett Rotor-Gene™, eppendorf Mastercycler®, Bio-Rad CFX

Quanta Cat. No.

95132-100
95132-500

Pack Size (20uL Reactions)

100 X 20 ul rxns
500 X 20 ul rxns

qScript XLT 1-Step RT-qPCR ToughMix, ROX

AB 7000, 7300, 7700, 7900, StepOne™

95133-100
95133-500

100 X 20 ul rxns
500 X 20 ul rxns

qScript XLT 1-Step RT-qPCR ToughMix, low ROX

AB 7500, Stratagene MX, AB QuantStudio 12K Flex, AB ViiA7, Fluidigm BioMark

95134-100
95134-500

100 X 20 ul rxns
500 X 20 ul rxns



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