



Reproducible



ToughMix®



qScript®



Perfecting qPCR



Customization



Reliable

Whip your experiments into shape with the toughest mix around

Quantitative PCR

- UltraPlex® 1-Step ToughMix®
- qScript XLT 1-Step RT-qPCR ToughMix
- qScript 1-Step Virus ToughMix
- PerfeCtra® MultiPlex qPCR ToughMix
- PerfeCtra qPCR ToughMix

Conventional PCR & Genotyping

- qScript XLT 1-Step RT-PCR Kit
- AccuStart II PCR ToughMix
- repliQa HiFi ToughMix

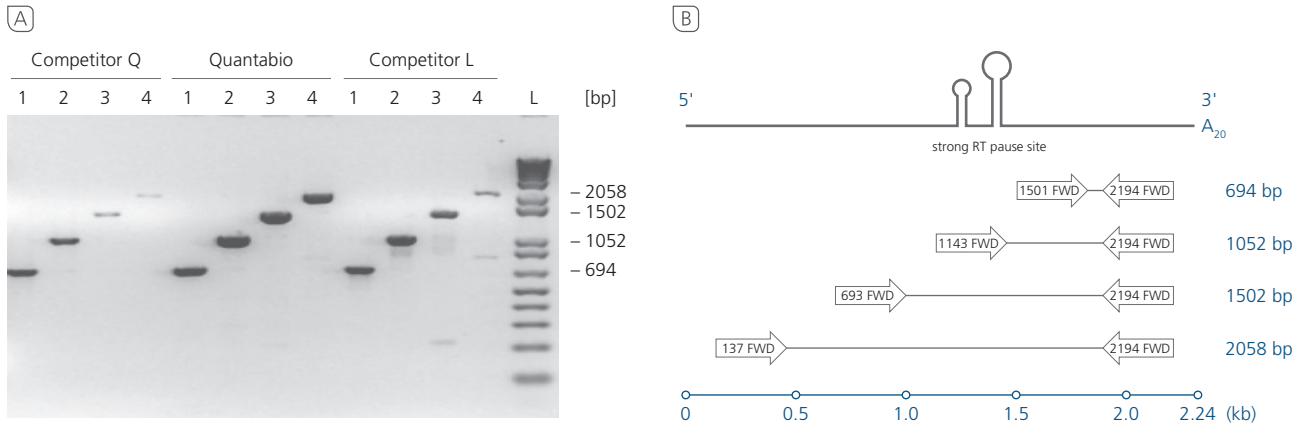


OVERCOME PCR INHIBITORS

Many PCR inhibitors are present in crude samples extracted from environmental specimens, plant tissues, or animal tissues. They operate by shutting down PCR amplification at threshold concentrations, or by quenching fluorescent signal. ToughMixes neutralize these problem-causing inhibitors avoiding expensive or time-consuming purification steps to eliminate them.

Inhibitor	Common sources	Reagent performance	
		Competitor	PerfeCtra ToughMix
Polyphenols	Plant extracts	–	✓
Humic acids	Soil Plant tissues	–	✓
Hematin	Dried bloods Blood spots	–	✓
Hemoglobin	Blood	✓	✓
Polysaccharides	Feces Plant tissues	–	✓
Melanin	Hair Skin	–	✓

Advanced qscript XLT RT-PCR Toughmix Kit performance



One-Step RT-PCR of varying length amplicons from 2.2 kb TcR in vitro transcript RNA. Each kit was used according to the manufacturer's recommended procedure in 20 µl reaction volumes containing 200 µM each primer and 1×10^5 copies of an in vitro synthesized run-off transcript for the tetracyclin resistance gene (TcR), produced using T7 RNA polymerase. Following first-strand synthesis and activation of the hot-start Taq polymerase, all reactions were amplified for 30 cycles of 94°C, 15 s; 60°C, 20 s; 72°C, 2 min followed by a final hold of 5 min at 72°C. 1/5th of each reaction was analyzed on a 0.8% agarose, 0.5x TBE gel containing 0.25 mg/ml ethidium bromide.

ORDER INFO

Product Name	Quantabio Catalog Number	Size
PerfeCta qPCR ToughMix - 250 R	95112-250	250 x 20 µl rxns (2 x 1.25 ml)
PerfeCta qPCR ToughMix - 1250 R	95112-012	1250 x 20 µl rxns (10 x 1.25 ml)
PerfeCta qPCR ToughMix - 5000 R	95112-05K	5000 x 20 µl rxns (1 x 50 ml)
PerfeCta MultiPlex qPCR ToughMix - 250 R	95147-250	250 x 25 µl rxns (1 x 1.25 ml)
PerfeCta MultiPlex qPCR ToughMix - 1000 R	95147-01K	1000 x 25 µl rxns (4 x 1.25 ml)
PerfeCta MultiPlex qPCR ToughMix - 5000 R	95147-05K	5000 x 25 µl rxns (1 x 25 ml)
qScript XLT 1-Step RT-qPCR ToughMix - 100 R	95132-100	100 x 20 µl rxns (1 x 1 ml)
qScript XLT 1-Step RT-qPCR ToughMix - 500 R	95132-500	500 x 20 µl rxns (5 x 1 ml)
qScript XLT 1-Step RT-qPCR ToughMix - 2000 R	95132-02K	2000 x 20 µl rxns (1 x 20 ml)
repliQa HiFi ToughMix - 25 R	95200-025	25 x 50 µl rxns (1 x 0.625 ml)
repliQa HiFi ToughMix - 100 R	95200-100	100 x 50 µl rxns (1 x 2.50 ml)
repliQa HiFi ToughMix - 500 R	95200-500	500 x 50 µl rxns (1 x 12.50 ml)
qScript XLT 1-Step RT-PCR Kit - 20 R	95143-020	20 x 25 µl rxns
qScript XLT 1-Step RT-PCR Kit - 200 R	95143-200	200 x 25 µl rxns
AccuStart II PCR ToughMix - 800 R	95142-800	800 x 25 µl rxns (8 x 1.25 ml)
AccuStart II PCR ToughMix - 4000 R	95142-04K	4000 x 25 µl rxns (1 x 50 ml)
UltraPlex 1-Step ToughMix - 100 R	95166-100	100 x 20 µl rxns (1 x 0.5 ml)
UltraPlex 1-Step ToughMix - 500 R	95166-500	500 x 20 µl rxns (5 x 0.5 ml)
qScript 1-Step Virus ToughMix - 100 R	95131-100	100 x 20 µl rxns (1 x 1 ml)
qScript 1-Step Virus ToughMix - 500 R	95131-500	100 x 20 µl rxns (5 x 1 ml)
qScript 1-Step Virus ToughMix - 2000 R	95131-02K	100 x 20 µl rxns (1 x 20 ml)

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