

UltraPlex[®] 1-Step ToughMix[®]

Tough-tested
Toughmix reagents deliver superior performance in the presence of PCR inhibitors

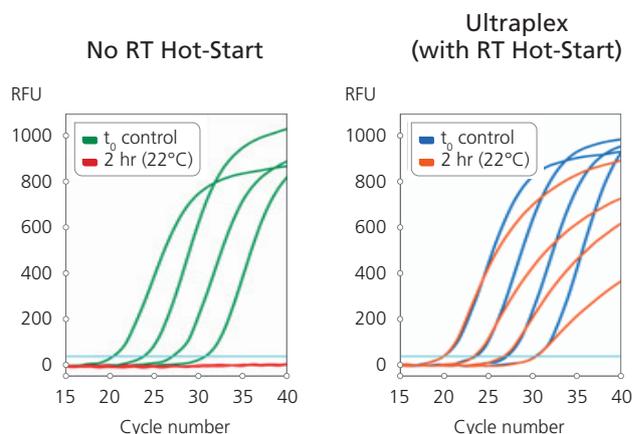
Up to 5-target multiplex, inhibitor-resistant RT-qPCR, maximum yields for superior performance

FEATURES & BENEFITS:

- 4x concentrated SuperMix reagent supports increased sample input volume, improving flexibility with extremely low yield templates (1 pg total RNA)
- ToughMix reagent technology neutralizes a broad spectrum of PCR inhibitors common in plant and animal tissues, environmental sources, clinical specimens and complex food matrices
- Superior assay sensitivity and specificity with ultrapure AccuStart II enzyme technology – maximum-yielding *Taq* DNA polymerase mutant controlled by stringent, multi-epitope antibody hot start
- Temperature stabilized master mix enables convenient setup at ambient room temperature

DESCRIPTION:

UltraPlex 1-Step ToughMix is a ready-to-use, single-component SuperMix reagent for 1-Step reverse transcription and real-time quantitative PCR (RT-qPCR) of RNA templates using probe-based detection methods. Advanced qScript XLT reverse transcriptase mutant possesses elevated temperature stability and improved template binding affinity increases sensitivity with large, complex RNA targets and delivers highly sensitive quantification with highly multiplexed RNA detection assays. ToughMix reagent technology ensures robust, reliable performance of highly-multiplexed (>4) RNA detection assays with a wide-range of inhibitory starting materials. This flexible formulation supports miniaturized reaction volumes (droplet PCR) with either fast or standard thermal cycling conditions.



The RT Hot Start functionality of Ultraplex improves low-copy RT-qPCR performance and enables convenient room temperature reaction setup.

ORDER INFO

Product Name	Quantabio Catalog Number	Size
UltraPlex 1-Step ToughMix- 100 R	95166-100	100 x 20 µl rxns
UltraPlex 1-Step ToughMix - 500 R	95166-500	500 x 20 µl rxns
UltraPlex 1-Step ToughMix - 1000 R	95166-01K	1000 x 20 µl rxns
UltraPlex 1-Step ToughMix ROX - 100 R	95167-100	100 x 20 µl rxns
UltraPlex 1-Step ToughMix Low ROX - 100 R	95168-100	100 x 20 µl rxns
UltraPlex 1-Step ToughMix Low ROX - 500 R	95168-500	500 x 20 µl rxns
UltraPlex 1-Step ToughMix Low ROX - 1000 R	95168-01K	1000 x 20 µl rxns

qScript[®] XLT 1-Step RT-qPCR ToughMix[®]

Robust, inhibitor-resistant RT-qPCR, maximum yields for superior performance

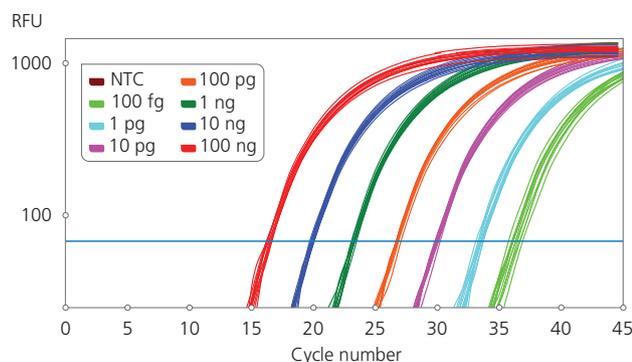
Tough-tested
Toughmix reagents deliver superior performance in the presence of PCR inhibitors

FEATURES & BENEFITS:

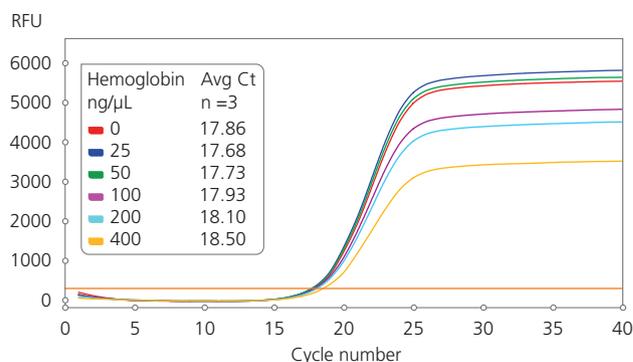
- ToughMix reagent technology neutralizes a broad spectrum of PCR inhibitors common in plant and animal tissues, environmental sources, clinical specimens and complex food matrices
- Superior assay sensitivity and specificity with ultrapure AccuStart II enzyme technology – maximum-yielding *Taq* DNA polymerase mutant controlled by stringent, multi-epitope antibody hot start
- Inert AccuVue plate loading dye simplifies reaction setup and provides instant visual cue of reagent addition and mixing
- Supports efficient vortex mixing with proprietary anti-foaming formulation
- Flexible – supports for both fast and standard thermal cycling conditions

DESCRIPTION:

qScript XLT 1-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. Advanced qScript XLT reverse transcriptase mutant possesses elevated temperature stability and improved template binding affinity for large complex RNA templates. Sequential temperature incubations are performed to the same reaction mixture without opening the tube. The proprietary one-step reaction buffer has been specifically formulated to maximize activity of each enzyme while minimizing the potential for primer-dimer and other non-specific PCR artifacts. Inert AccuVue plate loading dye simplifies reaction assembly and provides instant confirmation of reagent addition and mixing.



Broad linear dynamic range, low Limit of Detection.



Enables performance in the presence of inhibitors.

ORDER INFO

Product Name	Quantabio Catalog Number	Size
qScript XLT 1-Step RT-qPCR ToughMix - 100 R	95132-100	100 x 20 μl rxns
qScript XLT 1-Step RT-qPCR ToughMix - 500 R	95132-500	500 x 20 μl rxns
qScript XLT 1-Step RT-qPCR ToughMix, ROX - 100 R	95133-100	100 x 20 μl rxns
qScript XLT 1-Step RT-qPCR ToughMix, ROX - 500 R	95133-500	500 x 20 μl rxns
qScript XLT 1-Step RT-qPCR ToughMix, Low ROX - 100 R	95134-100	100 x 20 μl rxns
qScript XLT 1-Step RT-qPCR ToughMix, Low ROX - 500 R	95134-500	500 x 20 μl rxns

Trademarks: qScript[®], ToughMix[®] UltraPlex[®], are registered trademarks of Quantabio, LLC. Quantabio products are intended for molecular biology applications. The products are not intended for the diagnosis, prevention or treatment of a disease. MK-SF-0002 REV 02 UltraPlex qScript XLT1step 0121