

PerfeCta® qPCR ToughMix®

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

Robust, inhibitor-resistant probed-based qPCR

FEATURES & BENEFITS:

- 2x concentrated reagents minimize pipetting steps, simplify reaction assembly and improve accuracy
- 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
- Easy-to-use 2x concentrated master mixes with AccuVue plate loading dye and optimized passive reference dye for simplified reaction setup
- Supports efficient vortex mixing with proprietary anti-foaming technology

DESCRIPTION:

PerfeCta qPCR ToughMix is a 2x concentrated qPCR SuperMix ready-to-use reaction cocktail for PCR amplification of DNA templates that overcomes a broad spectrum of PCR inhibitors often encountered in environmental specimens, plant tissues, or animal tissues. This proprietary polymerase mix provides maximum sensitivity and PCR efficiency with all dual-label (hydrolysis) probe-based detection chemistries and stringent hot-start activation control allowing reaction assembly pre-run storage at ambient room temperature prior to thermal cycling. Inert AccuVue plate loading dye is compatible with either white or clear PCR plates and helps to minimize pipette error and provides visual confirmation of reagent addition. UNG containing versions are blended with Uracil N-glycosylase to eliminate potential post-PCR carryover contamination associated with routine testing workflows.

Store refrigerated (4°C) for up to 6 months or ≤-20°C for up to one year. Reagent performance is not affected by repetitive freeze-thawing.

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

ORDER INFO

Product Name	Quantabio Catalog Number	Size
PerfeCта qPCR ToughMix - 250 R	95112-250	250 x 20 µl rxns (2 x 1.25 ml)
PerfeCта qPCR ToughMix - 1250 R	95112-012	1250 x 20 µl rxns (10 x 1.25 ml)
PerfeCта qPCR ToughMix - 5000 R	95112-05K	5000 x 20 µl rxns (1 x 50 ml)
PerfeCта qPCR ToughMix, ROX - 1250 R	95113-012	1250 x 20 µl rxns (10 x 1.25 ml)
PerfeCта qPCR ToughMix, ROX - 5000 R	95113-05K	5000 x 20 µl rxns (1 x 50 ml)
PerfeCта qPCR ToughMix, Low ROX - 250 R	95114-250	250 x 20 µl rxns (2 x 1.25 ml)
PerfeCта qPCR ToughMix, Low ROX - 1250 R	95114-012	1250 x 20 µl rxns (10 x 1.25 ml)
PerfeCта qPCR ToughMix, Low ROX - 5000 R	95114-05K	5000 x 20 µl rxns (1 x 50 ml)
PerfeCта qPCR ToughMix, UNG - 1250 R	95138-012	1250 x 20 µl rxns (10 x 1.25 ml)
PerfeCта qPCR ToughMix, UNG - 5000 R	95138-05K	5000 x 20 µl rxns (1 x 50 ml)
PerfeCта qPCR ToughMix, UNG, ROX - 1250 R	95139-012	1250 x 20 µl rxns (10 x 1.25 ml)
PerfeCта qPCR ToughMix, UNG, ROX - 5000 R	95139-05K	5000 x 20 µl rxns (1 x 50 ml)
PerfeCта qPCR ToughMix, UNG, Low ROX - 1250 R	95140-012	1250 x 20 µl rxns (10 x 1.25 ml)
PerfeCта qPCR ToughMix, UNG, Low ROX - 5000 R	95140-05K	5000 x 20 µl rxns (1 x 50 ml)

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Quantabio products are intended for molecular biology applications. The products are not intended for the diagnosis, prevention or treatment of a disease.

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