Product Specifications 95112-05K Rev 02

Proprietary polymerase mix is highly resistant to PCR inhibitors and provides an extremely stringent automatic hot-start allowing reaction assembly, and temporary storage, at room temperature prior to PCR amplification. PerfeCta qPCR ToughMix delivers exceptional performance with either fast or conventional PCR cycling protocols.

Component Part Numbers:
84197 PerfeCta qPCR ToughMix, 50 mL

Quality Control Analysis and Specifications:

Nuclease Assay:

DNase: DNase activity must be below the detectable limits of 100 pg DNase I equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

RNase: RNase activity must be below the detectable limits of 1 pg RNase A equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

RT-qPCR β Actin Plasmid DNA Functional Assay: Fast-cycling Real-time PCR detection of log-fold serial dilutions of a control DNA from 10 to 1x 10^7 copies. Linear regression analysis of cycle threshold versus log input quantity must give a slope of between –3.20 and –3.65 and coefficient of determination (R^2) ≥0.990.

RT-qPCR IL1–β Human genomic DNA Functional Assay: Real-time PCR detection of single-copy gene in human genomic DNA using activation step of 10 minutes at 95°C. Linear regression analysis of cycle threshold versus log input quantity for a log-fold serial dilutions of human genomic DNA from 10 to 1 x 10^5 copies must give a slope of between –3.20 and –3.65 and coefficient of determination (R^2) ≥0.990 with accurate two-fold discrimination of 500, 1000, and 2000 copies.

Limitations of Use
Quantabio, UltraPlex, qScript, GelTrack, ToughMix, PerfeCta, and FastMix are registered trademarks of Quantabio, LLC. Applied Biosystems, StepOne, StepOnePlus and ROX are trademarks of Thermo Fisher Scientific and or its subsidiaries. Please contact Quantabio for more information.

This product was developed, manufactured, and sold for in vitro use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.

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