

Product Information				
Perfеста® qPCR ToughMix® ROX™				
Part Number	95113-05K			
Number of Reactions	5000 Reactions			
Reaction Size	20 μL			
Storage Temperature	-25°C to -15°C			
Lot Number	66265845			
Reference Number	092524			
Expiration Date	02/28/2027			

Product Description:

PerfeCTa qPCR ToughMix ROX is a 2X concentrated readyto-use reaction cocktail for PCR amplification of DNA templates that relieves several types of PCR inhibition commonly encountered with crude extracts, environmental specimens, plant tissues, animal tissues, and complex food matrices. This robust real-time qPCR reagent provides maximum sensitivity and PCR efficiency with a variety of fluorogenic probe chemistries, including TaqMan® hydrolysis probes. The only user-supplied components are primers, probe(s), and DNA template. Pre-blended with inert AccuVue plate loading dye to help minimize pipette errors during setup and provides visual confirmation of thorough mixing. A key component of PerfeCTa qPCR ToughMix ROX is an ultra pure, highly processive thermostable DNA polymerase that is combined with high avidity monoclonal antibodies. This 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: 84199 PerfeCTa qPCR ToughMix ROX, 50 mL

Product Specifications					
95113					
Assay	RT-qPCR ß Actin Plasmid DNA Functional Assay	RT-qPCR IL1–ß Human genomic DNA Functional Assay	DNase	RNase	
Result	Pass	Pass	Pass	Pass	

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 ß Actin Plasmid DNA Functional Assay: Fast-cycling Real-time PCR detection of log-fold serial dilutions of a control DNA from 10 to 1×10^7 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–ß 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

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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.