

Product Information	
PerfeCTa qPCR SuperMix, UNG, Low ROX	
Part Number	95066-500
Number of Reactions	500 reactions
Reaction Size	20 µL
Storage Temperature	-25°C to -15°C
Lot Number	027352
Reference Number	092018
Expiration Date	09/30/2021

Component Part Numbers:

84051 PerfeCTa qPCR SuperMix, UNG, Low ROX 1.25mL

Product Description:

PerfeCTa qPCR SuperMix, UNG, Low ROX is a 2X concentrated ready to use reaction cocktail that contains all components, except primers, probe(s), and template for real-time quantitative PCR on Applied Biosystems 7500, 7500 Fast, ViiA™7, or Stratagene MX series of real-time PCR systems. The proprietary buffer and stabilizers have been specifically optimized to deliver maximum PCR efficiency sensitivity, and robust fluorescent signal with TaqMan® or TaqMan MGB probe chemistry. The enhanced specificity of this supermix suppresses cross reactivity between homologous sequences, improving detection and discrimination in SNP applications. A key component of this supermix is AccuStart™ Taq DNA Polymerase, which contains monoclonal antibodies that bind to the polymerase and keep it inactive prior to the initial PCR denaturation step. Upon heat activation (2 min at 95°C), the antibodies denature irreversibly, releasing fully active, unmodified Taq DNA polymerase. This enables specific and efficient primer extension with the convenience of room temperature reaction assembly. Additionally, the dNTP mix in this SuperMix contains dUTP in place of dTTP. Inclusion of uracil-N-glycosylase (UNG) prevents amplification of carry-over contamination from previous dU-containing PCRs.

Product Specifications			
95066			
Assay	qPCR β-actin Plasmid DNA Functional Assay	DNase	RNase
Result	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.

qPCR β-actin Plasmid DNA Functional Assay: Detection of β-actin from 10 copies to 1 x 10⁷ copies. Correlation of determination (R²) ≥ 0.990 from Ct standard curve analysis. Slope from Ct standard curve analysis between -3.20 and -3.70.

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.