

Product Information	
<b>PerfeCta® qPCR SuperMix</b>	
<b>Part Number</b>	95050-500
<b>Number of Reactions</b>	500 reactions
<b>Reaction Size</b>	50 µL
<b>Storage Temperature</b>	-25°C to -15°C
<b>Lot Number</b>	025387
<b>Reference Number</b>	030117
<b>Expiration Date</b>	03/31/2020

Product Description:

PerfeCta qPCR SuperMix is a 2X concentrated, ready-to-use reaction cocktail that contains all components, except primers, probe(s), and template for real-time quantitative 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 minutes 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.

Component Part Numbers:

84008 PerfeCta qPCR SuperMix 1.25mL

Product Specifications			
95050			
Assay	qPCR β-actin Plasmid DNA Functional Assay	DNase	RNase
<b>Result</b>	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 10<sup>7</sup> copies. Correlation of determination (R<sup>2</sup>) ≥ 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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