

| Product Information | |
|--------------------------------|----------------|
| PerfeCta® qPCR SuperMix | |
| Part Number | 95050-02K |
| Number of Reactions | 2000 reactions |
| Reaction Size | 50 µL |
| Storage Temperature | -25°C to -15°C |
| Lot Number | 66152569 |
| Reference Number | 112018 |
| Expiration Date | 11/30/2021 |

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:

84009 PerfeCta qPCR SuperMix 50.0 mL

| Product Specifications | | | |
|------------------------|---|-------|-------|
| 95050 | | | |
| 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.