

| 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>              | 66140773       |
| <b>Reference Number</b>        | 102018         |
| <b>Expiration Date</b>         | 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:

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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