

| Product Information                           |                |
|---|----------------|
| <b>PerfeCTa SYBR® Green SuperMix low ROX®</b> |                |
| Part Number                                   | 95056-100      |
| Number of Reactions                           | 100 reactions  |
| Reaction Size                                 | 50µL           |
| Storage Temperature                           | -25°C to -15°C |
| Lot Number                                    | 023737         |
| Reference Number                              | 041717         |
| Expiration Date                               | 04/30/2020     |

**Product Description:**

PerfeCTa SYBR Green SuperMix low Rox is a user-friendly, 2X concentrated reaction mix that simplifies setup and reduces errors with optimized reference dye and pre-blended AccuVue plate loading dye for visual confirmation of reagent addition and mixing. This proprietary buffer technology stabilizes a high concentration of SYBR Green I dye to ensure maximum optical signal with low abundance or small targets (such as microRNA). Successful detection with a non-specific, dsDNA intercalating dye requires precise target amplification as off-target primer elongation will contribute to overall fluorescent signal and lead to over-reported relative abundance values. This reagent is powered by a highly-processive, ultra-pure Taq DNA polymerase mutant with stringent, ultra-pure AccuStart™II antibody hot start technology that allows ambient room-temperature setup and maximal enzyme kinetics after rapid, irreversible denaturation at 95°C.

**Component Part Numbers:**

84020 PerfeCTa SYBR Green SuperMix Low ROX 1.25mL

| Product Specifications |   |       |       |
|------------------------|---|-------|-------|
| 95056                  |   |       |       |
| 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 for SYBR Green SuperMix and SYBR Green FastMix:** Detection of β-actin from 10 copies to 1 x 10<sup>7</sup> copies. The Coefficient of Determination ( $r^2$ ) ≥ 0.990 with a slope analysis between -3.20 and -3.65

**Limitations of Use**

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