

| Product Information | |
|---|----------------|
| PerfeCTa SYBR® Green SuperMix low ROX® | |
| Part Number | 95056-100 |
| Number of Reactions | 100 reactions |
| Reaction Size | 50µL |
| Storage Temperature | -25°C to -15°C |
| Lot Number | 028134 |
| Reference Number | 111317 |
| Expiration Date | 11/30/2020 |

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 10⁷ 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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