

| Product Information | |
|---------------------------------------|----------------|
| PerfeCTa® SYBR® Green SuperMix | |
| Part Number | 95054-500 |
| Number of Reactions | 500 reactions |
| Reaction Size | 50 µL |
| Storage Temperature | -25°C to -15°C |
| Lot Number | 66210689 |
| Reference Number | 081622 |
| Expiration Date | 08/31/2025 |

Product Description:

PerfeCTa SYBR Green SuperMix 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:

84016 PerfeCTa SYBR Green SuperMix, 1.25mL

| Product Specifications | | | |
|------------------------|---|-------|-------|
| 95054 | | | |
| Assay | qPCR β actin Plasmid DNA Functional Assay for SYBR Green SuperMix | 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: Real-time PCR detection of log-fold serial dilutions of a control DNA from 10 copies to 1×10^7 copies. Cq standard curve analysis must have coefficient of determination (r^2) ≥ 0.990 with a slope between -3.20 and -3.65 .

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.