

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	66273963
Reference Number	091724
Expiration Date	09/30/2027

**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  $1 \times 10^7$  copies. Cq standard curve analysis must have coefficient of determination ( $r^2$ )  $\geq 0.990$  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.

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