

Product Information	
PerfeCta SYBR Green SuperMix for iQ	
Part Number	95053-500
Number of Reactions	500 Reactions
Reaction Size	50 $\mu$ L
Storage Temperature	-25°C to -15°C
Lot Number	66275896
Reference Number	121224
Expiration Date	12/31/2027

**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:**

84014 PerfeCta SYBR Green SuperMix, for iQ 1.25 mL

Product Specifications			
95053			
Assay	qPCR $\beta$ -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  $\beta$ -actin Plasmid DNA Functional Assay for SYBR Green SuperMix:** Detection of  $\beta$ -actin from 10 copies to  $1 \times 10^7$  copies. The Cq standard curve analysis must have a coefficient of determination ( $R^2$ )  $\geq 0.990$  with a slope between -3.20 to -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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