Product Information	
PerfeCTa SYBR Green SuperMix for iQ	
Part Number	95053-02K
Number of Reactions	2000 Reactions
Reaction Size	50 µL
Storage Temperature	-25°C to -15°C
Lot Number	66241027
Reference Number	120622
Expiration Date	12/31/2025

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:

84015 PerfeCTa SYBR Green SuperMix, for iQ 50.0 mL

Product Specifications			
95053			
Assay	**qPCR ß-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 ß-actin Plasmid DNA Functional Assay for SYBR Green SuperMix: Detection of ß-actin from 10 copies to 1 x 10^7 copies. The Cq standard curve analysis must have a coefficient of determination (R^2) ≥ 0.990 with a slope between -3.20 to -3.65

Limitations of Use

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.