Product Information	
PerfeCTa® SYBR® Green SuperMix	
Part Number	95054-500
Number of Reactions	500 reactions
Reaction Size	50 µL
Storage Temperature	-25ºC to -15ºC
Lot Number	027898
Reference Number	121217
Expiration Date	12/31/2020

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 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: Real-time PCR detection of log-fold serial dilutions of a control DNA from 10 copies to 1 x 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

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.