# Quantabio

Product Information			
PerfeCтa SYBR Green SuperMix for iQ			
Part Number	95053-500		
Number of Reactions	500 Reactions		
Reaction Size	50 μL		
Storage Temperature	-25ºC to -15ºC		
Lot Number	022298		
Reference Number	120716		
Expiration Date	12/31/2019		

#### 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 nonspecific, 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<sup>™</sup>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 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** *B***-actin Plasmid DNA Functional Assay for SYBR Green SuperMix:** Detection of *B*-actin from 10 copies to  $1 \times 10^7$  copies. The Cq standard curve analysis must have a coefficient of determination ( $R^2$ )  $\ge$  0.990 with a slope between -3.20 to -3.65

#### Limitations of Use

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