

Product Information	
PerfeCta® SYBR® Green FastMix®, ROX™	
Part Number	95073-05K
Number of Reactions	5000 Reactions
Reaction Size	20 µL
Storage Temperature	-25°C to -15°C
Lot Number	66270678
Reference Number	121224
Expiration Date	07/31/2027

**Product Description:**

PerfeCta SYBR Green FastMix is a 2X concentrated, ready-to-use reaction cocktail that contains all components, except primers and DNA template. This rigorously optimized master mix contains of proprietary buffer technology, stabilizers and AccuFast™ Taq DNA polymerase to deliver maximum assay precision, sensitivity, and PCR efficiency for accelerated or conventional thermal cycling conditions for SYBR Green detection. Dye-based detection methods are critically dependent on highly specific amplification because dsDNA dyes will bind to any amplicon, including off-target primer elongation and primer dimerization. AccuFast hot start Taq DNA polymerase contains a proprietary mixture of ultra-pure monoclonal antibodies that stringently suppress primer elongation prior to the initial PCR denaturation step and allows for setup and multi-day storage at ambient room temperature prior to thermal cycling. AccuFast provides rapid release of fully active enzyme to support accelerated thermal cycling conditions.

Product Specifications			
95073			
Assay	qPCR B-actin Plasmid DNA Functional Assay SYBR Green Fast Mix	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 SYBR Green Fast Mix:** 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 -3.70

**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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