

Product Information	
<b>PerfeCta® SYBR® Green FastMix®, ROX™</b>	
<b>Part Number</b>	95073-250
<b>Number of Reactions</b>	250 Reactions
<b>Reaction Size</b>	20 µL
<b>Storage Temperature</b>	-25°C to -15°C
<b>Lot Number</b>	66216690
<b>Reference Number</b>	110822
<b>Expiration Date</b>	08/31/2025

**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.

**Component Part Numbers:**

**84071 PerfeCta SYBR Green FastMix, ROX 1.25mL**

Product Specifications			
95073			
Assay	qPCR B-actin Plasmid DNA Functional Assay SYBR Green Fast Mix	DNase	RNase
<b>Result</b>	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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