

| 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 | 66247512 |
| Reference Number | 010524 |
| Expiration Date | 12/31/2026 |

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 β -actin from 10 copies to 1×10^7 copies. The Cq standard curve analysis must have a coefficient of determination (R^2) ≥ 0.990 with a slope between -3.20 to -3.70

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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