

| Product Information                         |                |
|---|----------------|
| <b>PerfeCta® SYBR® Green FastMix®, ROX™</b> |                |
| Part Number                                 | 95073-012      |
| Number of Reactions                         | 1250 Reactions |
| Reaction Size                               | 20 µL          |
| Storage Temperature                         | -25°C to -15°C |
| Lot Number                                  | 024035         |
| Reference Number                            | 021218         |
| Expiration Date                             | 02/28/2021     |

**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 |
| 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 x 10<sup>7</sup> copies. The Cq standard curve analysis must have a coefficient of determination (r<sup>2</sup>) ≥ 0.990 with a slope between -3.20 to -3.70

**Limitations of Use**

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