# Product Specifications 95073-012 Rev 01

## Component Part Numbers:
84071 PerfeCta SYBR Green FastMix, ROX 1.25mL

## Product Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Number of Reactions</th>
<th>Reaction Size</th>
<th>Storage Temperature</th>
<th>Lot Number</th>
<th>Reference Number</th>
<th>Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>95073-012</td>
<td>1250 Reactions</td>
<td>20 µL</td>
<td>-25°C to -15°C</td>
<td>66240987</td>
<td>101223</td>
<td>11/30/2025</td>
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</table>

## 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 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.

## 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 10⁷ 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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