Product Description:
PerfeCta SYBR Green FastMix Low ROX 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.

Component Part Numbers:
84073 PerfeCta SYBR Green FastMix, Low ROX

<table>
<thead>
<tr>
<th>Product Specifications 95074-250 Rev 01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay</td>
</tr>
<tr>
<td>Result</td>
</tr>
</tbody>
</table>

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 10^7 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
Quantabio and Ultraplex are registered trademarks of QIAGEN Beverly, Inc. Quanta Biosciences, qScript, Geltrack, ToughMix, PerfeCta, and Fastmix are registered trademarks of Quanta BioSciences Inc. Extracta, AccuStart, AccuMelt, and Accuvue are trademarks of Quanta BioSciences Inc. Applied Biosystems, StepOne, StepOnePlus and ROX are trademarks of Thermo Fisher Scientific and or its subsidiaries. Please contact QIAGEN-Beverly for more information.

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.
100 Cummings Center, Suite 407J, Beverly, MA 01915 • Ph (888) 927-7027 • Fax (978) 867-5724 • www.QuantaBio.com FMWI016.2 Rev 01