



Brilliant III Ultra-Fast QPCR Master Mix

Quick Reference Guide for the QIAGEN Rotor-Gene Q Real-Time PCR Cycler

This quick reference guide provides an optimized protocol for using the Stratagene Brilliant III Ultra-Fast QPCR Master Mix with the Rotor-Gene Q Real-Time PCR Cycler from QIAGEN. For detailed instructions, refer to the full product manual.

Prepare the Reactions

- 1 Prepare the experimental reactions by combining the components of the reagent mixture in the order listed in the table below. Prepare a single reagent mixture for replicate reactions (plus at least one reaction volume excess) using multiples of each component.

Reagent Mixture
Nuclease-free PCR-grade water to bring final volume to 20 μ l (including DNA)
10 μ l of 2 \times QPCR Master Mix
x μ l of experimental probe at optimized concentration (150–600 nM)
x μ l of upstream primer at optimized concentration (200–600 nM)
x μ l of downstream primer at optimized concentration (200–600 nM)

- 2 Gently mix the reagent mixture without creating bubbles, then distribute the mixture to the experimental reaction tubes.
- 3 Add x μ l of experimental DNA to each reaction to bring the final reaction volume to 20 μ l. The table below lists a suggested quantity range for different DNA templates.

DNA	Quantity per reaction
Genomic DNA	5 pg – 100 ng
cDNA	0.1 pg – 100 ng*

*Refers to RNA input amount during cDNA synthesis

- 4 Mix the reactions without creating bubbles, then centrifuge briefly.



Set Up the QPCR Plate and Thermal Profile

- 1 From the New Run screen, click the **Advanced** tab to access the **Advanced Wizard** options.
- 2 Select the **Two Step** template and click **New**.
- 3 Use the boxes of the wizard to make selections appropriate for your experiment.

*In the Temperature Profile box, click **Edit** to open the **Profile Editor**. Adjust the cycling protocol according to the guidelines in the tables below.*

Cycling Protocol for cDNA Targets

Cycles	Duration of Cycle	Temperature
1	3 minutes	95°C
40	5 seconds	95°C
	10 seconds	60°C

Cycling Protocol for Genomic DNA Targets

Cycles	Duration of Cycle	Temperature
1	3 minutes	95°C
40	20 seconds	95°C
	20 seconds	60°C

Run the PCR Program

- 1 Place the reactions in the Rotor-Gene Q instrument.
- 2 On the last screen of the wizard click **Start Run**.

Analyze Data

- 1 Analyze the results of the run as needed for your experiment.

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Product Information

Catalog #600880, 400 reactions
Catalog #600881 4000 reactions

Ordering Information

By phone (US only*): 800-424-5444, x3
On the web: www.stratagene.com

Technical Services

By phone (US only*): 800-894-1304, x2
By email: techservices@agilent.com

*For other countries, please contact your local sales representative at www.agilent.com/chem/contactus