

Better Performance. Brilliant Results.

Brilliant III Master Mixes

are now available with ROX



Key Features

- Fast activating hot start and engineered Taq-mutant
- Increase overall sensitivity and speed
- Maintains amplification efficiency, R², dynamic range & detection sensitivity
- Shorter cycling time: ~60% compared to standard cycling

Introduction

The Brilliant III Master Mixes are designed to provide high sensitivity, consistency and efficiency across a broad dynamic range (Figures 1 and 2). The Master Mixes deliver increased specificity through reduction of primer/dimer formation with a proprietary, fast hotstart technology (Figure 1).

Accelerate Your Results Without Compromising Performance and Versatility

These master mixes contain a novel engineered Taq that has been specifically formulated for speed and robustness without sacrificing performance. Available in SYBR® Green and Probe-chemistry, with or without high and low ROX, these kits are versatile as they are developed to work with diverse and complex samples types as well as low quality and quantity samples. They are also available in custom volume and packaging formats.

Figure 1: Performance of Brilliant III Ultra-FAST SYBR Green Master Mix with Low ROX. Serial dilution assay of the PGK1 target gene using cDNA synthesized from 100 ng to 1 pg of Human RNA per reaction.

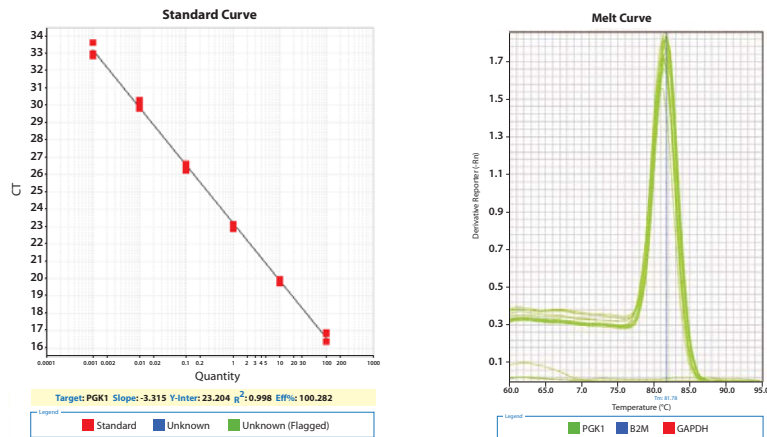
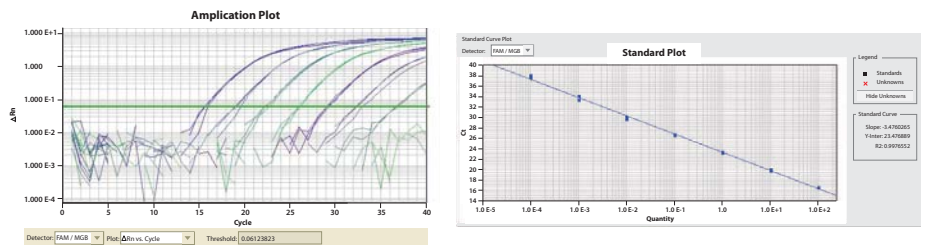


Figure 2: Performance of Brilliant III Ultra-FAST Probe Master Mix with High ROX. Serial dilution assay of the B2M target using 100 ng to 0.1 pg of template.



Experience the Freedom of Choice with Brilliant III QPCR low and high ROX reagents:

The low and high ROX formulations were developed specifically for the optical system design of various real-time PCR instruments. Due to variations in the dye excitation and emission detection a different level of premixed ROX dye is required to detect ROX signal. The ROX dye serves as a passive reference dye that is used for normalization of the fluorescent signal and correction of well-to-well variation

The table below can help you to determine which Brilliant III Master Mix low or high ROX would have the best compatibility with your QPCR instrument

| Product Name | Compatible Instrument |
|--|--|
| Brilliant ROX QPCR Low ROX Master Mix | 7500 Real-Time PCR System, 7500FAST Real-Time PCR System, Vii7™ Real-Time PCR System, StepOne™ Real-Time PCR System, StepOnePlus™ Real-Time PCR System |
| Brilliant ROX QPCR High ROX Master Mix | 7900 Real-Time PCR System, 7900HT Real-Time PCR System |

| Probe | Product | Part Number | Kit Size |
|--------|---|---------------|---------------|
| | Brilliant III Ultra-Fast Probe High ROX QPCR Master Mix | 600888 | 400 Rxns |
| | Brilliant III Ultra-Fast Probe Low ROX QPCR Master Mix | 600890 | 400 Rxns |
| | Brilliant III Ultra-Fast QPCR Master Mix | 600880 | 400 Rxns |
| | | 600881 | 10 x 400 Rxns |
| | Brilliant III Ultra-Fast QRT-PCR Master Mix | 600884 | 400 Rxns |
| 600885 | | 10 x 400 Rxns | |

| SYBR® Green | Product | Part Number | Kit Size |
|-------------|---|---------------|---------------|
| | Brilliant III Ultra-Fast SYBR® Green High ROX QPCR Master Mix | 600889 | 400 Rxns |
| | Brilliant III Ultra-Fast SYBR® Green Low ROX QPCR Master Mix | 600892 | 400 Rxns |
| | Brilliant III Ultra-Fast SYBR® Green QPCR Master Mix | 600882 | 400 Rxns |
| | | 600883 | 10 x 400 Rxns |
| | Brilliant III Ultra-Fast QRT-PCR SYBR® Master Mix | 600886 | 400 Rxns |
| 600887 | | 10 x 400 Rxns | |

For more information

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www.agilent.com/genomics/BrilliantIIIROXProbe

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U.S. and Canada

1-800-227-9770
agilent_inquiries@agilent.com

Europe

info_agilent@agilent.com

Asia Pacific

inquiry_lsca@agilent.com

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