Improved Real-Time Quantitative PCR (qPCR) on the BioRad CFX96 Real-Time PCR platform

Data Sheet

For faster, improved real-time quantitative PCR (qPCR) results choose Agilent

- Novel fast Taq mutant for qPCR results in under 40 minutes
- Enhanced rapid hot start capability saves time and reduces primer-dimer formation
- Optimized fast cycling formulation ensures reliable and reproducible data with shorter run times
- Convenient pre-blended formulations compatible with any fluorescent detection chemistry including both sequence-specific probes and SYBR® Green dyes

Brilliant III Ultra-Fast QPCR Master Mixes help you achieve success in all your qPCR applications. These unique reagents are equally robust and reproducible across a variety of assays on the BioRad CFX96 Real-Time instrument and are compatible with any fluorescent detection chemistry including both sequence-specific probes and SYBR® Green dyes.

Brilliant III Ultra-Fast QPCR Master Mixes employ a mutant Taq derived fast DNA polymerase and a specially modified hotstart to ensure gene specific amplification with minimal primer dimer formation. The novel hot start technology improves the specificity and precision of detection over a wide range of target concentrations. These reagents deliver high quality performance, especially with difficult to amplify targets or low abundant genes, resulting in a greater dynamic range and improved sensitivity.

With the Brilliant III Ultra-Fast QPCR Master Mixes, researchers can benefit from the time saving and increased sample throughput without compromising the quality of their qPCR results.

Highly efficient one-step QRT-PCR is performed with our Brilliant III Ultra-Fast QRT-PCR reagents using a Moloney-based RT for 1st strand synthesis with optimal performance at a synthesis temperature of 50°C.

AffinityScript QPCR cDNA Synthesis Kit can be used for 1st strand cDNA synthesis in a 2-step providing flexibility across a wide range of temperatures. Novel hotstart Taq DNA polymerase combined with AffinityScript RT, minimizes the potential for primer-dimer formation or other non-specific PCR products and delivers the most reproducible results.

The new Brilliant III Ultra-Fast QPCR Master Mixes can deliver QPCR results in less than 40 minutes on fast cycling real-time PCR systems. The enhanced sensitivity, specificity and reproducibility within an assay and across multiple assays from high to very low copy number templates makes Brilliant III Ultra-Fast QPCR and QRT-PCR Master Mixes the ideal choice for real-time PCR analysis.

For the best sensitivity and performance on any fast or standard cycling real-time PCR platform, choose our next generation Brilliant III Ultra-Fast QPCR or QRT-PCR reagents.
Minimizing Primer Dimerization Delivers Superior Sensitivity

Figure 2A and 2B

Minimizing Primer Dimerization Delivers Superior Sensitivity Over a Wide Range of Concentrations

Standard curve 10-fold dilutions detecting Cyclophilin and GUS Assays-On-Demand targets from 7-fold (A) and 5-fold (B) dilution series of 200 ng to 0.2 pg and 100 ng to 10 pg of cDNA respectively.

The Brilliant III Ultra-Fast Master Mix detects the target concentrations ~4 Cts and ~2 Cts earlier respectively with better efficiencies and tighter replicates.

Cyclophillin Target

GUS

Learn more:
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Printed in the USA, February 1, 2010
5990-5379EN