

USB® VeriQuest™ SYBR® Green qPCR Master Mix with Fluorescein (2X)

VeriQuest SYBR Green qPCR Master Mix with Fluorescein is supplied as a 2X pre-mixed formulation containing both fluorescein and UDG in an optimized buffer for quality results in real-time quantitative PCR assays. The proprietary reaction buffer and the hot start polymerase enhance SYBR Green-based qPCR amplification by reducing primer-dimer formation and non-template priming, increasing specificity and sensitivity.

Features:

- One-tube master mix with fluorescein added in optimized levels for use in all thermo cyclers that utilize it for signal normalization
- Enhanced amplification sensitivity and accuracy of low copy number detection
- Reproducible, consistent results while maintaining precision and efficiency
- Exceptional performance with challenging templates
- Ready-to-use single-tube replacement with UDG included
- Highly stable and easy to work with

Enhanced sensitivity on amplification for low copy number detection

Reliable detection from as little as four copies of a single copy gene and differentiation from less than a two-fold difference.

Reproducible, consistent results while maintaining precision and efficiency

The convenience of a master mix formulation without sacrificing quality. VeriQuest SYBR Green qPCR Master Mix with Fluorescein provides consistency over a broad dynamic template concentration range allowing 7 orders of magnitude linear detection. High precision in target quantification and discrimination of a 1.33 to 10-fold dilution series with VeriQuest SYBR Green qPCR Master Mix with Fluorescein ensures accurate results.

Exceptional performance with challenging templates

Even in high GC and AT rich regions, VeriQuest SYBR Green qPCR Master Mix with Fluorescein offers exceptional performance and high specificity so you have the confidence to verify your gene expression results.

Ready-to-use single-tube replacement

The one-tube master mix contains all necessary components: chemically-modified Taq DNA polymerase, MgCl₂, ultrapure nucleotides with an optimized dUTP:dTTP ratio, Uracil-DNA Glycosylase (UDG or UNG), SYBR Green I, and Fluorescein as the passive reference dye in a proprietary reaction buffer. Simply add your DNA template, primers, and water and you can begin your qPCR reaction. For use with instruments requiring fluorescein as a passive reference dye, *i.e.*, Bio-Rad iCycler iQ®/iQ⁵, Bio-Rad iCycler MyiQ™.

Passive reference dye and UDG included

Fluorescein Passive Reference Dye is an inert dye whose fluorescence does not change during the reaction. This signal normalization is necessary to correct for well-to-well differences that may occur due to artifacts such as pipetting errors or sample evaporation.

Uracil-DNA Glycosylase (UDG or UNG) and dUTP offer an option for carry-over contamination prevention from previous PCR amplifications. All are at optimized levels so there is no need to adjust concentrations.

Highly stable and easy to work with

VeriQuest SYBR Green qPCR Master Mix with Fluorescein is stable at room temperature for 72 hours in a preassembled reaction. This mix can be stored at 4°C for convenient handling, with no time lost waiting for your master mix to thaw. Testing of 10 freeze-thaw cycles showed no loss in master mix performance. This master mix is ideal for high-throughput handling.

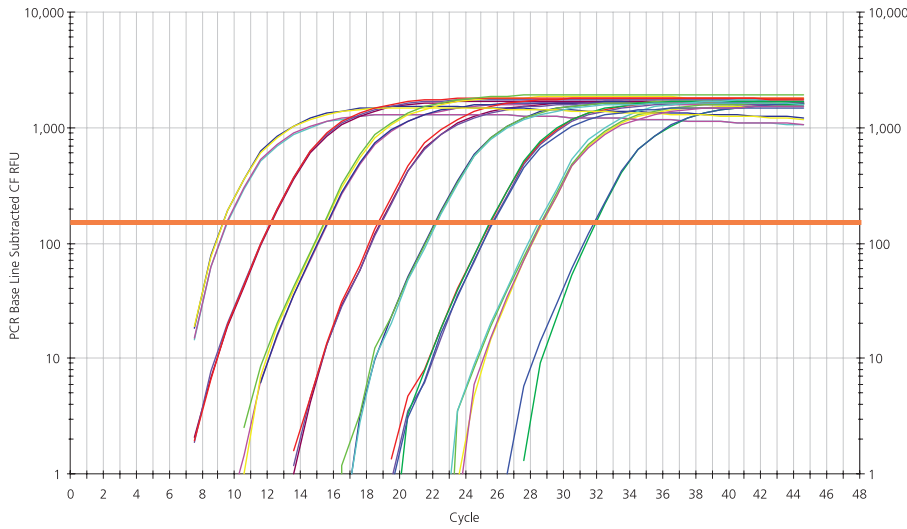
Storage:

Shipped on dry ice. Store at -20°C for long-term storage. Store at 4-8°C for short-term storage (≤3 months).

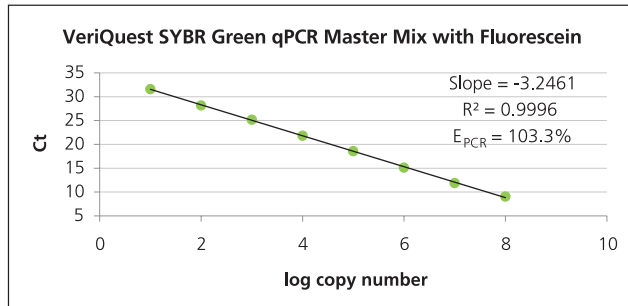
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Product Code	Pack Size
75665	40 reactions
	200 reactions
	400 reactions
	1,000 reactions
	2,000 reactions

Linear Detection Range of VeriQuest SYBR Green qPCR Master Mix with Fluorescein



Amplification plots and standard curves from real-time PCR for dilution series of a synthetic GAPDH target with starting amounts of 10^8 copies amplified in triplicate reactions using the Bio-Rad MyiQ™ Single Color Real-Time PCR Detection System.



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