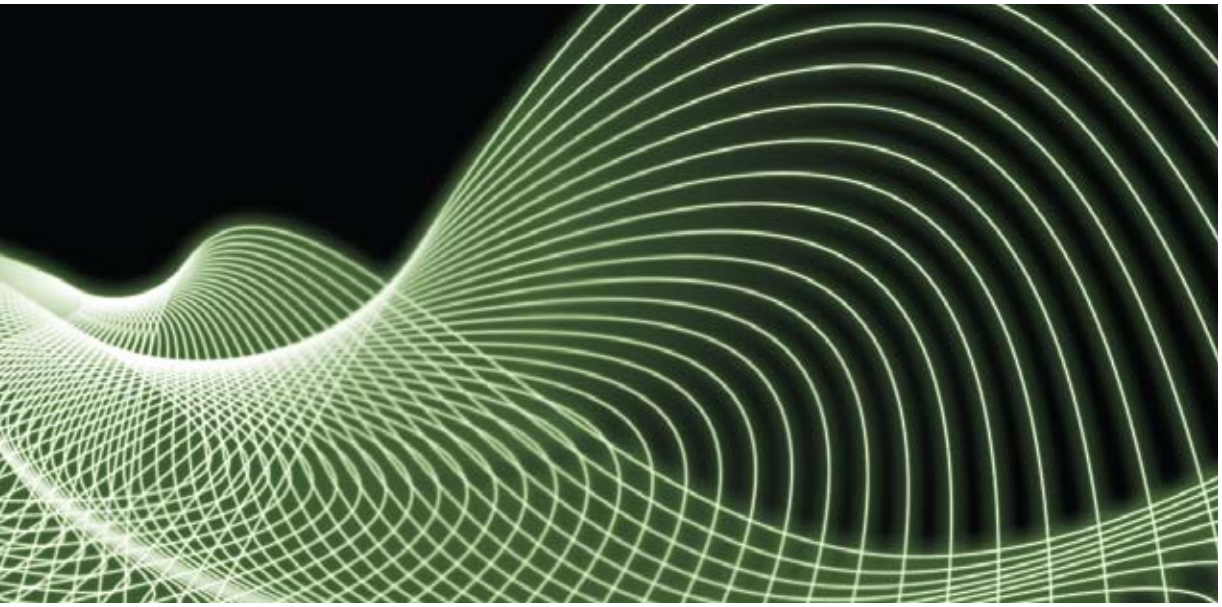


iQ™ Supermixes for qPCR

Always crowd-pleasers, Bio-Rad's iQ supermixes deliver memorable performances every time in real-time PCR assays.

- iTaq™ hot-start DNA polymerase allows sensitive and accurate detection of as few as 10 copies of template
- 2 unique formulas afford compatibility with any fluorescent detection chemistry
- These robust supermixes provide precise linear detection over 6 orders of magnitude

iQ™ SYBR® Green Supermix

iQ Supermix

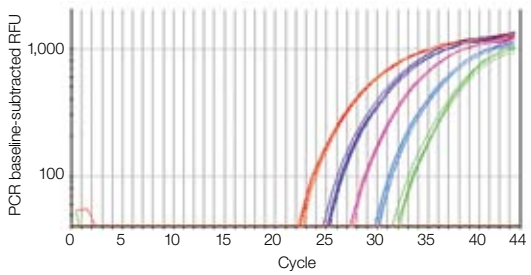
For more information, visit us on the Web at **www.bio-rad.com/supermixes/**.

BIO-RAD

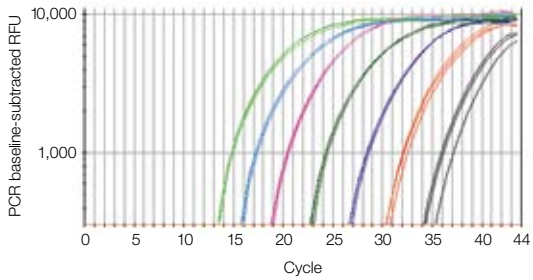
iQ Supermixes for Real-Time PCR

Our versatile iQ supermixes provide the ultimate convenience in preblended solutions for a wide array of real-time PCR applications. The two unique formulas have been specifically optimized for maximum flexibility and performance with any fluorescent detection chemistry, whether through the use of sequence-specific probes or the SYBR® Green I DNA binding dye. Both supermixes contain iTaq DNA polymerase, a highly sensitive hot-start polymerase that minimizes the amplification of nonspecific PCR products. In addition, both supermixes contain buffering agents and qPCR-qualified dNTPs, to afford the most sensitive amplification available. The iQ™ SYBR® Green supermix also contains fluorescein for the collection of well factors on the iCycler iQ®, MyiQ™, and iQ™5 real-time PCR detection systems. With these mixes, you can be assured of optimal qPCR results each and every time.

iQ™ SYBR® Green Supermix

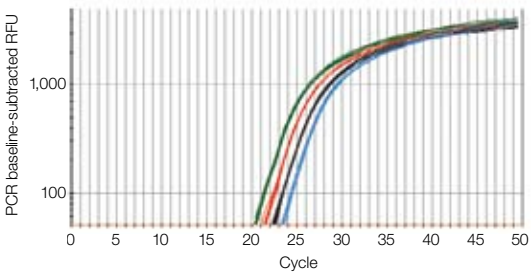


iQ™ SYBR® Green supermix generates precise, quantitative results. A 5-fold dilution series (50 ng–80 pg) of human genomic DNA was amplified using the supermix, primers, and a probe specific to the IL-1β gene. Triplicate reactions at each concentration were amplified along with no-template controls on the iCycler iQ real-time system. Standard curve had r = 0.999, slope = –3.380, efficiency = 97.6%.

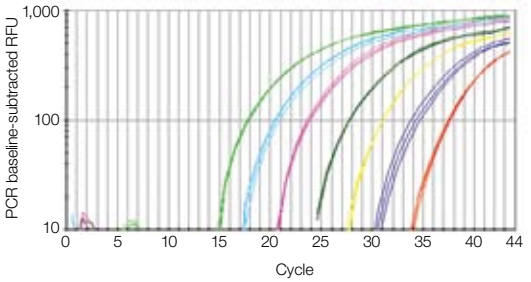


iQ™ SYBR® Green supermix and the iScript™ cDNA synthesis kit show consistently high specificity over a broad dynamic range of cDNA. Serial dilutions (1 µg–1 pg) of HeLa total RNA were reverse transcribed, and the resulting cDNA was amplified using primers specific to the β-actin gene. Triplicate reactions at each concentration were amplified along with no-template controls on the iCycler iQ real-time system. The consistent spacing of the curves reflects accurate reverse transcription and amplification. Standard curve had r = 0.997, slope = –3.615, efficiency = 89.1%.

iQ Supermix



An accurate one-cycle spacing in C_T is precisely maintained in a series of 2-fold dilutions. Human genomic DNA was amplified with iQ supermix, using primers and a probe specific to the IL-1β gene. Eight replicates at each template concentration were amplified along with no-template controls on the MyiQ real-time system. Standard curve had r = 0.999, slope = –3.378, efficiency = 97.7%.



iQ supermix and the iScript cDNA synthesis kit accomplish accurate, quantitative two-step RT-PCR. Serial dilutions (1 µg–1 pg) of HeLa total RNA were reverse transcribed, and the resulting cDNA was amplified using primers and a probe specific to the α-tubulin gene. Triplicate reactions at each concentration were amplified along with no-template controls on the iCycler iQ real-time system. The consistent 3.3-cycle spacing demonstrates the accuracy of amplification with this supermix as well as the fidelity of the iScript kit in reverse transcribing the 10-fold dilutions of the input RNA. Standard curve had r = 0.999, slope = –3.304, efficiency = 100.8%.

Ordering Information

Catalog #	Description
170-8862	**iQ Supermix**, 500 x 50 µl reactions, 2x mix contains 100 mM KCl, 40 mM Tris-HCl, pH 8.4, 0.4 mM each dNTP (dATP, dCTP, dGTP, dTTP), 50 U/ml iTaq DNA polymerase, 6 mM $MgCl_2$, stabilizers
170-8864	**iQ Supermix**, 1,000 x 50 µl reactions
170-8882	**iQ™ SYBR® Green Supermix**, 500 x 50 µl reactions, 2x mix contains 100 mM KCl, 40 mM Tris-HCl, pH 8.4, 0.4 mM each dNTP (dATP, dCTP, dGTP, dTTP), 50 U/ml iTaq DNA polymerase, 6 mM $MgCl_2$, SYBR® Green I, 20 nM fluorescein, stabilizers
170-8884	**iQ™ SYBR® Green Supermix**, 1,000 x 50 µl reactions
170-8885	**iQ™ SYBR® Green Supermix**, 2,000 x 50 µl reactions (50 ml bottle)
170-8890	**iScript cDNA Synthesis Kit**, 25 x 20 µl reactions
170-8891	**iScript cDNA Synthesis Kit**, 100 x 20 µl reactions

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