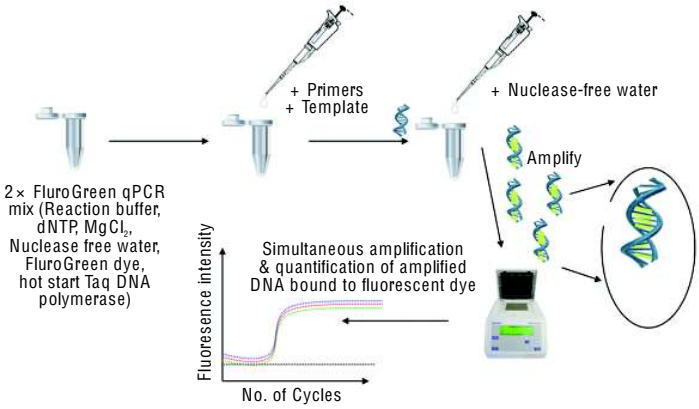
Real Time PCR Reagents

Real Time PCR (RT PCR) or as it is popularly known as qPCR (quantitative PCR) is a PCR technique which combines both amplification and quantification of the target DNA in real time, i.e. as the PCR is in process. One of the methods to quantify is by using non-specific fluorescent dye which intercalates with the amplified DNA and measures the fluorescence at every PCR cycle.

As every PCR technique involves a lot of components, the probability of handling & pipetting errors is high and time consuming. To eliminate this, SRL offers a varying range of PCR mixes that help simplify and ease the actual experimental work.

All the RT PCR reagents mentioned here are high-performance, high-throughput reagents for Real Time PCR.



Graphical description of usage of 2× FluroGreen qPCR Mix

60159 BioLit FluroGreen qPCR Master Mix (2×)

Pkg. 0.5ml, 1ml

This is a convenient cocktail which contains (except primers, template and water) a Hot Start Taq DNA polymerase (an unique enzyme, specifically designed for qPCR), FluroGreen dye, dNTP & $MgCl_2$. The FluroGreen dye with enhanced sensitivity and specificity binds to double-stranded (ds) DNA, thus providing a fluorescent signal that reflects the amount of dsDNA product generated during PCR.

78797 BioLit FluroGreen qPCR Master Mix (Low CAR) (2×)

Pkg. 0.5ml, 1ml

This is a convenient cocktail which contains (except primers, template and water) a Hot Start Taq DNA polymerase (an unique enzyme, specifically designed for qPCR), FluroGreen dye, dNTP, $MgCl_2$ & CAR – a passive reference dye. The FluroGreen dye with enhanced sensitivity and specificity binds to double-stranded (ds) DNA, thus providing a fluorescent signal that reflects the amount of dsDNA product generated during PCR. CAR, the passive reference dye, is included at a low concentration of 50 nM. This reagent is used in amplification and detection of DNA in qPCR on ABI real-time instruments that support normalization with CAR reference dye.

38151 BioLit FluroGreen qPCR Master Mix (High CAR) (2×)

Pkg. 0.5ml, 1ml

This is a convenient cocktail which contains (except primers, template and water) a Hot Start Taq DNA polymerase (an unique enzyme, specifically designed for qPCR), FluroGreen dye, dNTP, $MgCl_2$ & CAR – a passive reference dye. The FluroGreen dye with enhanced sensitivity and specificity binds to double-stranded (ds) DNA, thus providing a fluorescent signal that reflects the amount of dsDNA product generated during PCR. CAR, the passive reference dye, is included at a low concentration of 500 nM. This reagent is used in amplification and detection of DNA in qPCR on ABI real-time instruments that support normalization with CAR reference dye.

* "CAR" – a passive reference dye is included in qPCR mix – an inert dye whose fluorescence does not change during the PCR reaction. This internal reference dye helps to normalize fluorescent signal variations between wells that may occur due to pipetting errors or instrument limitations. This normalization increases data precision. The excitation and emission wavelength maxima of the reference dye are 575nm and 605nm respectively.

FluroGreen qPCR master mix is offered with different concentrations of passive reference dye because each instrument requires it at different concentrations.