For Research Use Only

Reference Guide

Catalog	Description
HL - SYLRPCM-100	1.3ml

2X SYBR Green PCR Mix with Low ROX

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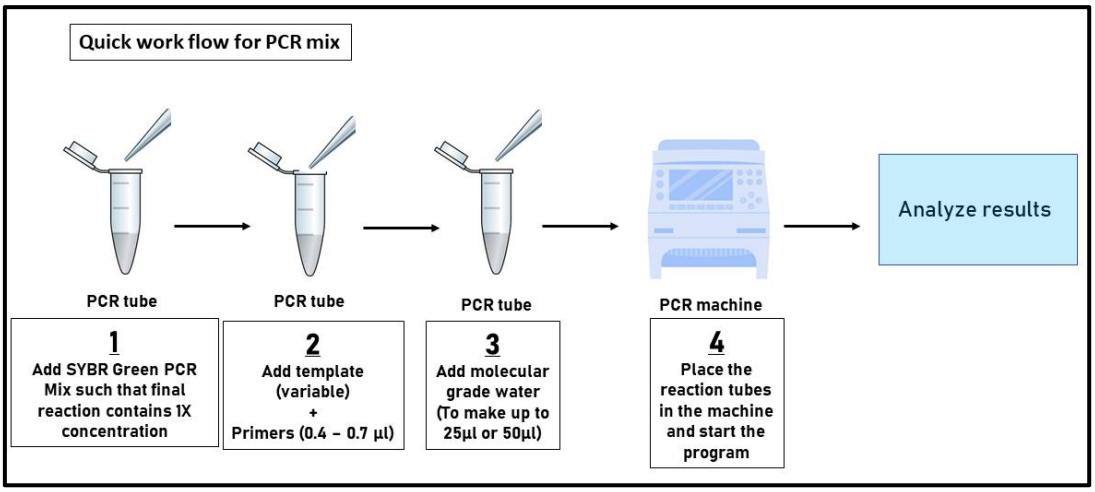
Store at - 20°C
PI/HL-SYLRPCM-00

Product description

2X SYBR Green Fast PCR Mix with low ROX is ready to use a concentrated mix with the detection reagent for Real-Time Polymerase chain reactions. The mix includes QuickStart Taq Polymerase, buffer, dNTPs, and SYBR Green detection reagent. The fluorescent SYBR Green reagent binds to the growing strand of DNA and is proportional to the polymerization. The quantity of double-stranded DNA formed can be correlated with the amount of SYBR Green intercalation in DNA, hence it helps in quantitative experiments. The mix contents do not interfere with the Polymerization, therefore can be safely used for the detection of dsDNA as and when it is formed. SYBR Green dye is sensitive to light and therefore should not be exposed to light for a long period.
This mix is specific for Real Time PCR machines with low ROX.

Features

- Contains QuickStart Taq Polymerase Enzyme to provide a better yield with 5'-3' Polymerase and Exo nuclease activity and fast activation of Taq polymerase.
- Includes reaction buffer, dNTPs, ROX and SYBR Green mix for ready to use PCR applications
- High specificity and sensitivity
- Buffer enhancements guarantee performance and reliability



Reagents Provided

2X SYBRGreen PCR Mix with Low ROX (1.3ml)

Storage conditions

2X SYBRGreen PCR Mix with Low ROX (1.3ml) should be stored at -20^{0}C

Recommended reaction set-up for PCR

Prepare PCRs using required reagents as recommended in the table below

PCR Program

Component	Volume(µL)
2X SYBR Green PCR Mix with Low ROX	13.0
Forward primer (10 pm/µL)	0.4-0.7
Reverse primer (10 pm/µL)	0.4-0.7
Template DNA	Variable (user defined)
Nuclease Free Water	Variable (user defined)
Total Volume	26

The reaction setup is for guidance and it can be modified according to the user's need. The current product is sufficient for 100 reactions if the above protocol is used.

Note: Mix the vials with the reaction set up by gentle tapping. A short spin is recommended after gentle mixing to ensure that the reagent mix is not sticking to the walls of the PCR tube

Thermocycling Protocol

Place the tubes in the Thermal Cycler and start the Polymerase chain reaction protocol. Below is a general template for PCRs and should be optimized for good results

Recommended PCR Program

Operation	Temp	Time	Cycles
Initial denaturation	95˚C	1-5 min	1
Denaturation	95˚C	15 sec	35-40 cycles
Annealing & Extension	60˚C	60 sec	

Applications

- Gene expression studies
- Detection of pathogens
- Microarray validation
- Effective detection of low concentration targets
- Quantification of Genes

Other PCR products from Huwel LifeSciences that you may be interested

S.No.	Product description	Catalogue No.
1.	2X SYBR Green Fast PCR Mix ***	HL – USYFPCM – 100
2.	Taq Polymerase Enzyme (5U/µl)	HL - Taq – 50 – 250 Units HL - Taq – 100 – 500 Units HL- Taq – 200 – 1000 Units
3.	HotStart Taq Polymerase Enzyme (5U/µl)	HL - HSTAQ – 50 – 250 Units HL - HSTAQ – 100 – 500 Units HL - HSTAQ – 200 – 1000 Units
4.	QuickStart Taq Polymerase Enzyme (5U/µl)	HL - QSTAQ – 50 – 250 Units HL - QSTAQ – 100 – 500 Units HL - QSTAQ – 200- 1000 Units

*** This reagent is available with Uracil DNA Glycosylase (UDG) also

For further information on protocols and details, please contact our technical support:
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