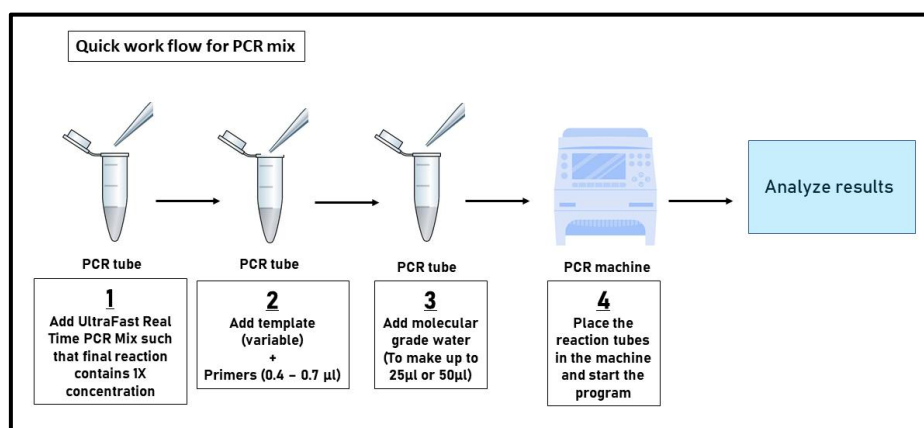


Product Description

UltraFast Real Time PCR Mix 5X is a ready-to-use concentrated reagent for Polymerase chain reactions (PCR). The easy-to-use PCR mix reduces the experimental time to half making it ideal for fast-paced labs. The reagent comes with QuickStart Taq Polymerase Enzyme, dNTPs in one tube in 5X concentration. The user can right away start the assays just by adding the template and the respective primer-probe mix. The Ultrafast PCR mix 5X is ideal for CHIP qPCRs and is NOT recommended for regular PCRs.

Features

- Contains QuickStart *Taq* Polymerase Enzyme to provide a better yield with 5'-3' Polymerase and Exonuclease activity
- Includes reaction buffer, dNTPs, and enzyme for ready to use PCR applications
- High specificity and sensitivity
- Buffer enhancements guarantee performance and reliability



Reagents Provided

UltraFast Real Time PCR Mix 5X

Storage conditions

UltraFast Real-Time PCR Mix 5X should be stored at -20°C

Recommended reaction set-up for PCR

Prepare PCRs as recommended in the table below

PCR Protocol

Component	Volume(μ L)
UltraFast Real Time PCR Mix	5.0
Forward primer (10 pm/ μ L)	0.4-0.7
Reverse primer (10 pm/ μ L)	0.4-0.7
Probe	Variable (user defined)
Template DNA	Variable (user defined)
Nuclease Free Water	Variable (user defined)
Total Volume	25

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

Reference Guide

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 min	1
Denaturation	95°C	1-5 sec	30-35
Annealing & Extension	60°C	1-5 sec	cycles

Applications

- Primer extension
- CHIP based qPCRs

Other PCR products from Huwel LifeSciences that you may be interested

S.No.	Product description	Catalogue No.
1.	UltraFast Real Time PCR Mix 5X with UDG ***	HL - UUFPCM - 100 - 500 µl HL - UUFPCM - 200 - 1ml
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 with Uracil DNA Glycosylase (UDG) which helps in avoiding carry-over contaminations

For further information on protocols and details, please contact our technical support:
info@huwelllifesciences.in