For Research Use Only

Ready Blue Universal PCR Mix 2X

Reference Guide

Catalog	Description
HL- RBUPM-100	1.25ml

Store at - 20°C
PI/RBUPM-00

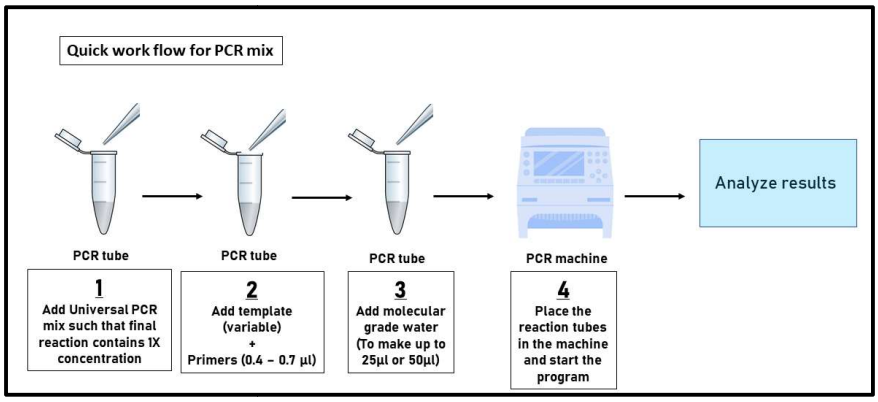
Product Description

Ready Blue Universal PCR Mix is Pre mixed 2X concentrated reagent ready to use for Endpoint Polymerase Chain reactions (PCR) with two gel tracking dyes.

The premix 2X reagent helps in an easy experimental setup ,avoids nonspecific amplifications and can be directly loaded on an Agarose gel for visual tracking.

Features

- Contains Taq Polymerase Enzyme to provide a better yield with 5'-3' Polymerase, and Exonuclease Activity.
- Includes buffer, and dNTPs for ready to use PCR applications.
- Additionally, it also contains 2 dyes Bromophenol Blue and Xylene Cyanol FF for visual tracking of DNA migration on an Agarose gel.
- High specificity and sensitivity
- Saves time, prevents cross-contamination, helps to cut-down on consumables
- Buffer enhancements guarantee performance and reliability



Reagents supplied

Ready Blue Universal PCR Mix (2X) (1.25ml)

Storage condition

Ready Blue Universal PCR Mix (2X) should be stored at -20^{0}C

Recommended reaction set-up for PCR

Prepare PCRs using required volumes of freeze-thawed components in the PCR hood as recommended in the table below

PCR Protocol

Component	Volume (µL)
Ready Blue Universal PCR Mix 2X	12.5
Forward primer (10pm/µL)	0.4-0.7
Reverse primer (10pm/µL)	0.4-0.7
Template DNA	Variable (user defined)
Nuclease Free Water	Variable (user defined)
Total Volume	25 µL

The reaction set up 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	30 sec	35-40 cycles
Annealing	Tm-˚C	30-60 sec	
Extension	72˚C	1min/kb	
Final Extension	72˚C	5 – 10 min	1

- After the completion of the Polymerase Chain Reaction the amplicon can be directly loaded on the gel without any addition of the gel loading dye. The migration can be tracked visually based on the migration patterns of the 2 dyes.
- On a 1% Agarose gel Bromophenol Blue and Xylene Cyanol FF migrate at DNA sizes corresponding to 300-500 bp and 3000-4000bp , respectively.

Applications

- Routine PCR Reactions
- cDNA amplification
- Generating PCR products for TA cloning

Other PCR products from HuwelLifeSciences that you may be interested

S.No.	Product description	Catalogue No.
1.	**Universal PCR Mix (2X) with UDG**	HL – UUPM – 100 – 1.25ml
2.	**UltraFast Real Time PCR Mix 5X**	HL – UFPCM – 100 – 500µl HL – UFPCM – 200 – 1ml
3.	**UltraFast Real Time PCR Mix 5X with UDG**	HL – UUFPCM – 100 – 500µl HL – UUFPCM – 200 – 1ml
4.	**Taq Polymerase Enzyme (5U/µl)**	HL - Taq – 50 – 250Units HL - Taq – 100 – 500Units HL - Taq – 200 – 1000Units
5.	**HotStart Taq Polymerase Enzyme (5U/µl)**	HL - HSTaq – 50 – 250Units HL - HSTaq – 100 – 500Units HL - HSTaq – 200 – 1000Units
6.	**QuickStart Taq Polymerase Enzyme (5U/µl)**	HL - QSTaq – 50 – 250Units HL - QSTaq – 100 – 500Units HL – QSTaq – 200 - 1000Units

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