For Research Use Only

Reference Guide

Catalog	Description
HL - UPMGLD-100	1.25ml

Universal PCR Mix 2X with 6X Gel Loading Dye

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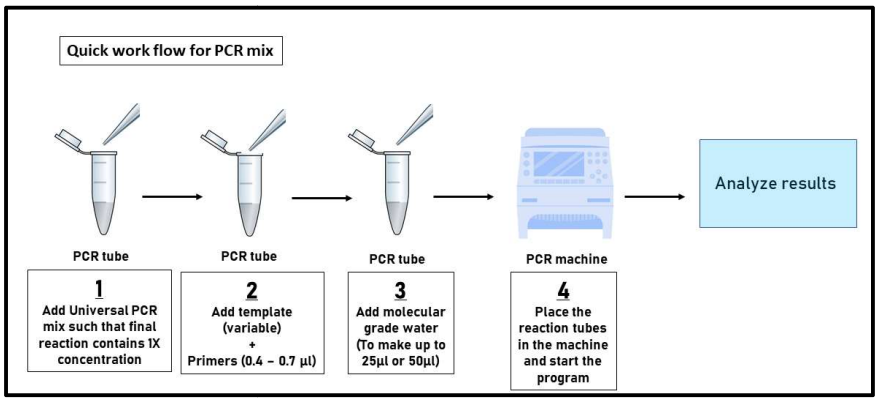
Store at - 20°C
PI/UPMGLD-00

Product Description

Universal PCR Mix is a Pre mixed 2X concentrated reagent ready to use for End point Polymerase chain reactions (PCR) supplied with 6X gel loading dye.
The premix 2X reagent is supplied along with 6x gel loading dye for checking on Agarose gel

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
- High specificity and sensitivity
- Buffer enhancements guarantee performance and reliability
- 6X Gel loading dye consists of 2 dyes Xylene Cyanol FF and Bromphenol Blue for gel tracking



Reagents supplied

- Universal PCR Mix (2X) (1.25ml)
- 6X Gel Loading Dye(1.0mL)

Storage condition

Universal PCR Mix (2X) and 6X gel loading dye 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)
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.

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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

- Add the required quantity of gel loading dye to a final concentration of 1X and load on the Agarose gel.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 Huwel LifeSciences that you may be interested

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