

Universal PCR Mix 2X with Additive

Reference Guide

Catalog Description
 HL - UPMA-100 1.25ml

Store at - 20°C
 PI/UPMA-00

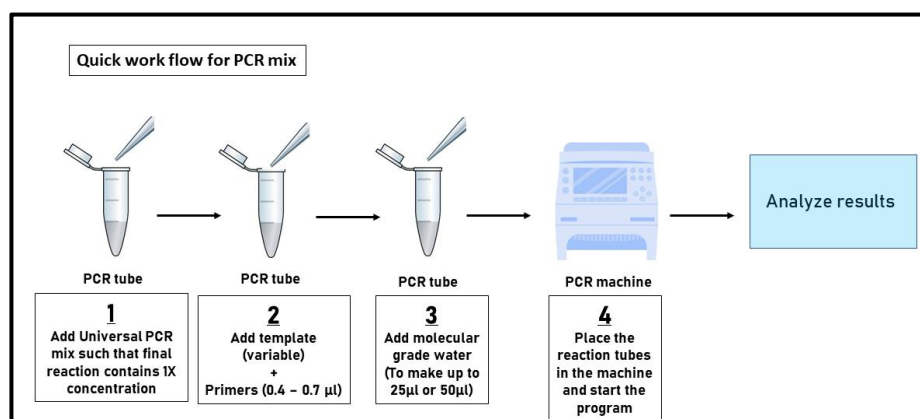
Product Description

Universal PCR Mix with Additive is a Premixed 2X concentrated reagent ready to use for Endpoint Polymerase chain reactions (PCR).

The premix 2X reagent is supplied along with an additive which helps in easy experimental setup, avoids nonspecific amplifications and is useful to efficiently amplify GC rich sequences.

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
- Includes additive for enhancing amplification of GC rich sequences
- High specificity and sensitivity
- Buffer enhancements guarantee performance and reliability



Reagents supplied

- Universal PCR Mix (2X) (1.25ml)
- Additive (0.1 mL)

Storage condition

Universal PCR Mix (2X) and Additive should be stored at -20°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(μ L)
Universal PCR Mix 2X	12.5
Additive	0.5-1.0
Forward primer (10 pm/ μ L)	0.4-0.7
Reverse primer (10 pm/ μ L)	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: The additive concentration needs to be optimized based on the GC content of the template

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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	T _m -°C	30-60 sec	
Extension	72°C	1min/kb	
Final Extension	72°C	5 - 10 min	1

Applications

- Routine PCR Reactions
- cDNA amplification
- Generating PCR products for TA cloning
- Amplification of GC rich templates

Other PCR products from Huwel LifeSciences 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

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

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



HLSS Manufacturing Pvt Ltd,
 Plot Nos; M 14, M 15, M 16,
 TSIC, Medical Devices Park,
 Sultanpur Village, Ameenpur Mandal,
 Sangareddy Dist, Telangana-502319,
www.huwellifesciences.in, Email:info@huwellifesciences.in