

Reference Guide

Catalog	Description
HL - UUPM-100	1.25ml

 Store at - 20°C
 PI/UUPM-01

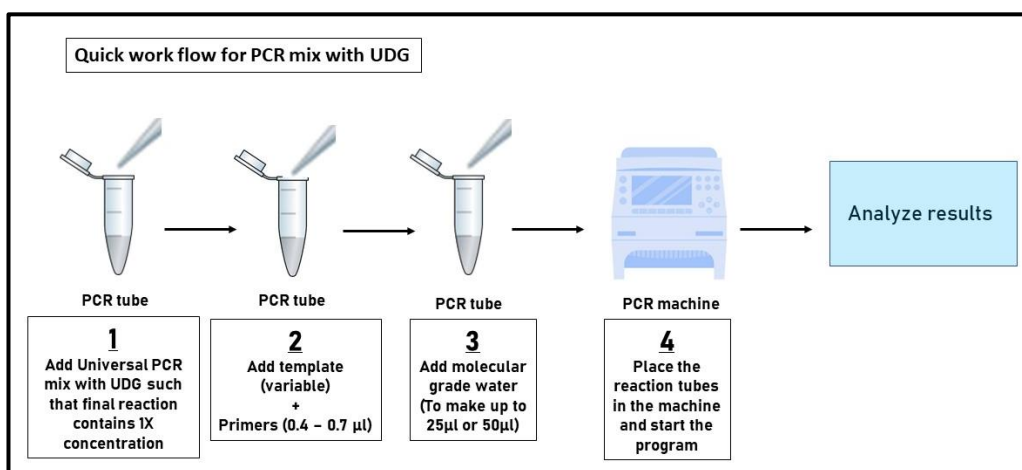
Product Description

Universal PCR Mix with UDG is a Premixed 2X concentrated reagent ready to use for Endpoint Polymerase chain reactions (PCR). The premix 2X reagent helps in an easy experimental setup and avoids nonspecific amplifications.

The reagent along with Taq Polymerase Enzyme, dNTPs come with dUTP and UDG enzyme. The incorporation of dUTP in place of dTTP to the growing strand during PCR makes it an ideal degradation target for the UDG enzyme. The UDG enzyme gets inactivated at higher temperatures and therefore does not interfere with the amplification while clearing out any potential contamination that may be carried over from the previous experiments. The mix is available with and without UDG to suit your experimental needs.

Features

- Contains Taq Polymerase Enzyme to provide a better yield with 5'-3' Polymerase, and Uracil DNA Glycosylase (UDG) to provide a better amplification with 5'-3' Polymerase and Exonuclease Activity
- Includes reaction buffer, and dNTPs for ready to use PCR applications
- High specificity and sensitivity
- Buffer enhancements guarantee performance and reliability



Reagents supplied

Universal PCR Mix (2X) with UDG (1.25ml)

Storage condition

Universal PCR Mix (2X) with UDG 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(µL)
Universal PCR Mix 2X with UDG	12.5
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	25 µL

Reference Guide

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

Applications

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

Other PCR products from Huwel LifeSciences that you may be interested

S.No.	Product description	Catalogue No.
1.	Universal PCR Mix (2X)***	HL - UPM - 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 without Uracil DNA Glycosylase (UDG)

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