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|--------------|-------------|
| Catalog | Description |
| HL - DCqPM2X | 1.3ml |

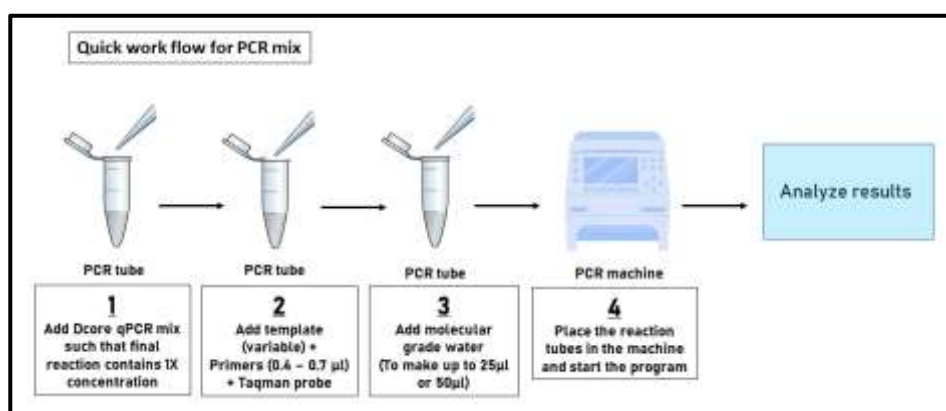
Store at: -20°C
PI/HL DCqPM2X-01

Product Description

Dcore qPCR Mix is a premixed 2X concentrated reagent ready to use for real-time Polymerase chain reactions (PCR). The premix 2x reagent inclusive of HotStart Polymerase Enzyme and dNTPs helps in an easy experimental setup and avoids nonspecific amplifications. Template of choice along with primer probe mix is to be added such that the final concentration of the PCR mix is 1X in the final assay. The Dcore qPCR mix is designed for TaqMan-based assays with DNA templates.

Features

- Contains HotStart 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



Reagents supplied

Dcore qPCR Mix (2X) (1.3ml)

Storage conditions

Dcore qPCR Mix (2X) (1.3ml) should be stored at -20°C

Recommended reaction set-up for PCR

The Dcore qPCR mix works the best for specific primers and is not recommended for random primers! Prepare PCRs using required volumes of freeze-thawed components in the PCR hood as recommended in the table below

| PCR Protocol | |
|---------------------------|-------------------------|
| Component | Volume(µL) |
| Dcore qPCR Mix | 13.0 |
| Forward primer (10 pm/µL) | 0.4-0.7 |
| Reverse primer (10 pm/µL) | 0.4-0.7 |
| TaqMan Probe | Variable (user defined) |
| Template DNA or cDNA | Variable (user defined) |
| Nuclease Free Water | Variable (user defined) |
| Total Volume | 26 |

The reaction setup is for guidance and can be modified according to the user's need. The current product is sufficient for 100 reactions if the above protocol is used.

Reference Guide

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 | 15 min | 1 |
| Denaturation | 95°C | 15 sec | 35-40 cycles |
| Annealing | 60°C | 60 sec | |

Applications

- Routine PCR reactions
- Gene expression analysis
- Amplified fragment length polymorphism
- cDNA amplification
- Molecular identification of organisms
- Viral load detection
- Pharmacogenomics
- Single nucleotide polymorphisms

Other PCR products from Huwel LifeSciences that you may be interested

| S.No. | Product description | Catalogue No. |
|-------|--|---|
| 1. | Dcore qPCR Mix with UDG (2X) | HL-UDCqPM2X |
| 2. | Taq Polymerase Enzyme (5U/μl) | HL - Taq - 50 - 250Units HL - Taq - 100 - 500Units HL - Taq - 200 - 1000Units |
| 3. | HotStart Taq Polymerase Enzyme (5U/μl) | HL - HSTaq - 50 - 250Units HL - HSTaq - 100 - 500Units HL - HSTaq - 200 - 1000Units |
| 4. | 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) which helps in avoiding carry-over contaminations

Our product references

Vinodhini M, Anant Gokarn, Sachin Punata (2020) Blood 136 (Supplement 1): 24-25

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

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