ViPrimePLUS Lyophilized One Step RT-qPCR Master Mix

Product code: QLMM22-96
Pack size: 96 reactions
Lot Number:
Expiry Date:

DESCRIPTION

ViPrimePLUS Lyophilized One Step RT-qPCR Master Mix has been improved and upgraded for a fast and easy real-time PCR reaction set up. The master mix has been freeze-dried into beads form in order to have ambient shipping and produce a room temperature stable preparation. The improved formulation of master mix contains antibody mediated Hot Start *Taq* DNA Polymerase, unique thermostable reverse transcriptase and the highest quality buffer components at optimal concentrations. The master mix provides the mechanism to achieve excellent results in reaction efficiency, correlation coefficient and slope.

ViPrimePLUS Lyophilized qPCR Master Mix can be used to amplify any RNA template including mRNA, total RNA and viral sequences. The improved sensitivity and consistency of ViPrimePLUS Lyophilized One Step RT-qPCR Master Mix in standard cycling conditions allow for industry leading performance in fast cycling conditions.

APPLICATIONS

All kinds of RNA sample material suited for one step RT-qPCR amplification can be used.

FEATURES

- Lyophilized form – ambient stable preparation
- Fast and easy real-time PCR reaction set up
- Highest sensitivity and specificity
- Compatible on most of the real-time PCR platforms

COMPONENTS

96 reactions / pack; 12 strips of 8 rxns/strip

STORAGE & SHIPMENT

Store at **2-8°C on arrival**; store at dry and cool area with silica pack and stable inside sealed package up to the expiry date. Ship at ambient temperature within 10 days. Once reconstitution, the master mix should be used immediately; or stored at -20°C within a month.

QUALITY CONTROL

As part of the ISO9001:2015 quality assurance systems, each lot of QLMM22 has been tested against predetermined specifications to ensure consistent product quality and highest levels of performance.

INTENDED USE

For research use only. Not registered for diagnosis use.

REACTION PREPARATION

1. Resuspend lyophilized RT-qPCR master mix only when about to use to maintain the performance.
2. When reconstitute the master mix,
   a. suggest to reconstitute with nuclease-free water at 10 µl. Once the bead is dissolved, other components can be added according to the calculation; or
   b. suggest to have nuclease-free water, primers and probe to mix according to total reactions, then add the needed volume of mixture to tube, cap and gentle vortex, and centrifuge at low speed to reconstitute the lyophilized beads.

SUGGESTED MIXTURE

Components	Reaction (1X)
ViPrimePLUS Lyophilized One Step RT-qPCR Master Mix	1 tube
Primers (6pmols Forward & Reverse)	1 µl per type
Probe (3pmols)	1 µl
Template (10-100ng)	1-5 µl
Nuclease-free water	Top up to 25 µl

3. After adding the template, cap and gentle vortex and briefly centrifuge again.
4. Add the **fluorogenic qPCR dye** accordingly for melt curve analysis.
5. Add the **ROX reference dye** accordingly for real-time PCR platform that needs reference dye for data normalization purpose.
6. Run the cycling program according to the suggested cycling program below. The cycling program can be adjusted according to template, primers, target length, GC content, etc.

CYCLING PROGRAM

Step	Cycles	Temp	Time
Reverse Transcription	1	50°C	15min
Enzyme activation	1	95°C	2min30s
Denaturation	45	94°C	15s
Data Collection*		55°C	40s

*Fluorogenic data should be collected during this step
**For SYBR® green detection, a post PCR melt curve can be added for data collection.

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