

HELINI™



Ready to use

HSV 1 & 2

Real-time PCR Primer Probe Mix

Instruction manual

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Contents

2 vials of Primer Probe Mix [lyophilized]

1 vial of Positive control [50,000copies) lyophilized]

Storage & Expiry

Kits are stable for at least 12 months [-20C in the dark].

Dissolved reagents are stable for at least 6 months if stored protected from light and store at -20C.

Dissolved reagents can be stored long term at -20C [within expiry]. Avoid multiple freeze-thaw cycles.

Additional reagents required

HELINI Probe PCR Master Mix OR any reputed brand Probe PCR Master Mix

HELINI Internal control template and Internal control Primer Probe Mix

HELINI Endogenous Primer Probe Mix [Human gene]

Sensitivity

This assay detects 10 genome equivalent copies or less per reaction. [Spiked plasmid control dilution]

Reagents Preparation

Primer Probe Mix

1. Spin down vials for 2 min at 10000rpm.
2. Add 140ul of Sterile distilled water or PCR grade water or Nuclease free water.
3. Incubate at room temperature for 5min.
4. Gently invert several times [15 – 20times] and spin down briefly.
5. It is ready to use now. Use 2.5ul per reaction for a 20ul or 25ul final qPCR reaction.

Positive control

1. Spin down vials for 2 min at 10000rpm.
2. Add 100ul of Sterile distilled water or PCR grade water or Nuclease free water.
3. Incubate at room temperature for 5min.
4. Gently invert several times [15 to 20times] and spin down briefly.
5. It is ready to use now. Use 5 to 10ul per reaction for a 20ul or 25ul final qPCR reaction.

DNA virus - Detection Mix

Components	20µl Final	25µl Final
Probe PCR Master Mix	10µl	10µl
HSV1 Primer Probe Mix	2.5µl	2.5µl
HSV2 Primer Probe Mix	2.5µl	2.5µl
Internal/Endogenous control* Primer Probe Mix [optional]	2.5µl	2.5µl
Purified DNA sample	2.5µl - 5µl	7.5µl - 10µl
Total reaction volume	20µl	25µl

* Internal control and Endogenous control primer probe mix are used to monitor the nucleic acid purification efficiency, biological status and PCR inhibition. Internal control is mostly recommended for all type of biological samples. However, endogenous control is recommended for the biological samples collected using swab. (Example, nasal, throat, Uro-genital swaps]

Negative Control setup

Add 10µl of PCR grade water or nuclease free water.

Qualitative Positive Control setup

Add 5 or 10µl of Positive control

Thermal Profile – DNA virus

	Step	Time	Temp
45 cycles	Initial Denaturation / Taq enzyme activation*	15min	95°C
	Denaturation	20sec	95°C
	Annealing/Data collection*	20sec	56°C
	Extension	20sec	72°C

* **Taq enzyme activation** duration may vary from company to company. Please read carefully and program as per their instructions.

Pathogen Detection Channel

FAM channel – HSV1

HEX channel – HSV2

Internal Control / Endogenous control Detection Channel

Cy5

Reading the results

Test Sample	Negative control	Positive control	Internal/Endogenous Control	Interpretation
Positive	Negative	Positive	Positive	Pathogen DNA Detected
Negative	Negative	Positive	Positive	Pathogen DNA Not detected/beyond detection limit
Negative	Negative	Negative	Negative	Experiment fail
Positive	Positive	Positive	Positive	Experiment fail

In association with

 **Gautham Pulavar Molecular Research**

Manufactured and Marketed by

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