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5×HiScript Multiplex Probe One Step qRT-PCR Mix (UDG)

Product Number: PCK095

Shipping and Storage

-20℃.

Components

Component	PCK095 100rxns
5×HiScript Multiplex Probe One Step qRT-PCR Mix(UDG)	400μl
RNase Free Water	1ml
ROX I	40μl
ROX II	40μl

1. The Real Time PCR instrument calibrated with ROX I includes:
   ABI 5700/7000/7300/7700/7900/7900 HT/7900 HT Fast,ABI StepOne/StepOnePlus and other instruments.
2. The Real Time PCR instrument calibrated with ROX II includes:
   ABI 7500/7500 Fast;ABI ViiA7;ABI Q6,ABI Quant Studio 6/7 Flex;Stratagene MX4000/MX3005P/MX3000P and other instruments.
3. Real Time PCR instruments that do not require ROX calibration include:
   Bio-Rad CFX96/CFX 384/iCycler iQ5/iQ/My iQ5/MiniOpticon/Opticon/Opticon 2/Chromo4； Eppendorf Mastercycler ep realplex /realplex 2s；Cepheid SmartCycler；Illumina Eco qPCR；Roche Applied Science LightCycler 480；Thermo Scientific PikoReal Cycler； Qiagen/Corbett Rotor-Gene Q/Rotor-Gene 3000/ Rotor-Gene 6000 and other instruments.

Description

5×HiScript Multiplex Probe One Step qRT PCR Mix (UDG) is a one tube probe method qRT PCR specific premix suitable for one-step quantitative PCR detection using RNA as a template (such as RNA virus). This product uses specially processed DNA polymerase and thermally stable reverse transcriptase, combined with a carefully optimized reaction buffer. It is a high-performance 5×concentration reagent that can be stored for a long time at low temperatures.At the same time, this product utilizes a dUTP-UDG contamination prevention system. During the PCR reaction, dUTP is added to form amplification products containing dU bases. This product can be digested by UDG enzymes in the system at room temperature before the next PCR reaction, effectively preventing false positives caused by PCR product contamination and ensuring the accuracy of the results.

Features

1. High sensitivity: The sensitivity of the detection standard can reach 10 copies/test.
2. Anti pollution system: Adding dUTP/UDG anti pollution system to the system can effectively degrade pollutants containing U and reduce false positives.
3. Multiple detection: 4-6 targets can be detected simultaneously in the same reaction tube.

Application

This product is suitable for various RNA related detection in animals, plants, microorganisms (viruses, etc.).

Protocol

1. Common reaction systems (20μl)

5×HiScript Multiplex Probe One Step qRT-PCR Mix(UDG)	4μl
Upstream primer	0.2-1.0μM(Final Conc.)

Downstream primer	0.2-1.0μM(Final Conc.)
Probe(10μM)	0.4μl
Template	0.001-500ng
ROX (to be selected based on machine model)	0.4μl
RNase Free Water	Up to 20μl

2. Recommended qRT PCR reaction procedure

2.1. Conventional reaction procedure

Cycle	Temperature	Time
1	50℃	10min
1	95℃	1min
40-45	95℃	10s
	60℃	30s

2.2. FAST RESPONSE PROCESS

Cycle	Temperature	Time
1	55℃	2min
1	95℃	20s
40-45	95℃	2s
	60℃	15s

Note

1. This product can achieve rapid and accurate detection of related viruses by pairing it with specific primers and probes (self provided).
2. When using, please mix gently upside down to avoid foaming, and use after slight centrifugation.
3. Please use new (non polluting) gun heads, microtubes, etc. for the preparation and packaging of the reaction solution to avoid RNase contamination.
4. If the customer is using a fluorescence quantitative instrument such as ABI series that requires ROX correction, please add the corresponding ROX I (25μM)/ROX II (2.5μM) according to the model used, or set the fluorescence internal reference of the instrument to "None". For example, for ABI series instruments, set "Passive Reference" to "None".