Tinzyme Co., Limited

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Direct Start Probe qPCR mix(UDG)

Product Number: PCK009

Shipping and Storage

-20℃.

Components

Component	PCK009
Direct Start Probe qPCR mix(UDG)	1ml×5
RNase Free Water	1ml×5
ROX I	200μl
ROX II	200μl

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

Direct Start Probe qPCR mix (UDG) is a specialized reagent designed to directly perform fluorescence quantitative PCR detection (TaqMan or Molecular Beacon, etc.) without the nucleic acid extraction and purification steps of samples. This product uses specially processed DNA polymerase and carefully optimized reaction buffer, making it a type of 2×Concentration of premixed reagents. This product has strong inhibitor tolerance and does not require DNA extraction and purification. It can be used for direct DNA amplification detection of anticoagulant whole blood, plasma, serum, urine, throat swabs, saliva, and other samples, and can amplify whole blood concentrations up to 25%. 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 before the next PCR reaction, effectively preventing false positives caused by PCR product contamination. And equipped with ROX Reference Dyes of different concentrations, used for correcting inter well fluorescence signal errors with different instruments.

Features

1. High specificity: HotStartTaq DNA polymerase, manufactured using a special process, can perform hot start PCR reactions, greatly improving the specificity of PCR amplification.
2. Pollution prevention: The dUTP-UDG system effectively prevents false positives caused by PCR product contamination.
3. Quick: The necessary reagents for PCR reaction are collected in one tube, and the reaction system can be prepared in a few minutes.

Suggestions

Please mix up and down gently to avoid foaming, and use after slight centrifugation. Please use new (non polluting) gun heads, microtubes, etc. for the preparation and packaging of the reaction solution to avoid contamination.

Protocol

1. Common reaction systems (20μl) :

2xDirect Start Probe qPCR mix(UDG)	10μl
Upstream primer (10μM)	0.2-1.0μM(Final Conc.)
Downstream primer (10μM)	0.2-1.0μM(Final Conc.)
Probe(10μM)	0.4μl
Template	Xμl
ROX (to be selected based on machine model)	0.4μl
RNase Free Water	Up to 20μl

2. Recommended program *:

Two step amplification program:

Cycle	Temperature	Time
1	50℃	2min
1	95℃	10min
35-45	95℃	10s
	60℃	30-60s