

Tinzyme Co., Limited

Email: sales@tinzyme.com Website: www.tinzyme.com Tel: +86-755-86134126 WhatsApp/Facebook/Twitter: +86-189-22896756

Super Start Probe qPCR Mix (UDG, Lyo)

Product Number: PCK006LY

Shipping and Storage

-20°C.

Components

-	
Component	PCK006LY
2×Super Start Probe qPCR Mix (UDG, Lyo)	5 vials
ROX I	200µl
ROX II	200µl
RNase Free Water	1ml×10

 The Real Time PCR instrument calibrated with ROX I includes: ABI 5700/7000/7300/7700/7900 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

Super Start Probe qPCR Mix (UDG, Lyo) is a reagent that uses TaqMan probe method for Real Time PCR; This product is a freeze-dried powder made by pre mixing HotStart Taq DNA polymerase, UDG enzyme, optimized reaction buffer, dNTPs, protectants, and excipients. The freeze-dried powder has a uniform appearance, a block like or sponge like structure, and dense pores. Simply add RNase Free Water to quickly dissolve into a 2×concentration premixed reagent. During the experiment, primers, probes, templates, and water are added to prepare the PCR reaction solution.

The introduction of dUTP/UDG anti pollution system into the formulation can effectively remove pollutants present in the system. At the same time, when the reaction system is heated to 90-95 °C, UDG enzymes are completely inactivated, which can maintain cDNA integrity.

This product is prepared using a special process to produce HotStart Taq DNA polymerase, combined with a specially optimized reaction and freeze-drying formula to produce a freeze-drying reagent. It can effectively inhibit non-specific reactions, improve reaction specificity and amplification efficiency, and accurately quantify over a wider range. And equipped with ROX Reference Dyes of different concentrations, used for correcting inter well fluorescence signal errors with different instruments.

Features

- 1. Adding RNase Free Water can quickly dissolve;
- 2. No need for cold chain transportation, can be stored at room temperature and 2-8°C;
- 3. High specificity: The HotStart Taq DNA polymerase prepared by a special process greatly improves the specificity of PCR amplification;
- 4. Efficient: The carefully formulated Real Time PCR specific 2×SuperMix has higher amplification efficiency and sensitivity;
- 5. Quick: The necessary reagents for PCR reaction are collected in one tube, and the reaction system can be prepared in a few minutes.

For Research Use Only





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Quality control

Purity testing: All components have been tested and found to have no residual endonucleases, exonucleases, or nucleic acid residues. The moisture content of freeze-dried powder is less than 3%.

Suggestion

- 1. Please use new (non polluting) gun heads, microtubes, etc. for the preparation and packaging of the reaction solution to avoid contamination.
- 2. Primer design: Generally, in order to increase sensitivity and amplification efficiency while suppressing non-specific reactions, the shorter the amplification target sequence, the better, usually below 200bp.

Protocol

1. Dissolve freeze-dried products

Add 1ml of RNase Free Water to each bottle to dissolve the freeze-dried product. The dissolved product is 2×Super Start Probe qPCR Mix (UDG, Lyo); The dissolved reagent can be stored at -20°C and can be used directly after melting in the next experiment.

2. Common reaction systems (20µl)

2×Super Start Probe qPCR Mix (UDG, Lyo)	10µl
Upstream primers	0.2-1.0µM(Final Conc.)
Downstream primers	0.2-1.0µM(Final Conc.)
Probe (10µM)	0.4µl
Template	1-2µl
ROX (to be selected based on machine model)	0.4µl
RNase Free Water	Up to 20µl

3. Common PCR cycles*

*The two-step method can achieve high specificity, while the three-step method can achieve high amplification rate.

The two-step h	letilou call a	ichneve nigh spec
3.1. Two step	amplificatio	n program:
Temperature	Time	Cycles
50°C	2min	
95°C	5min	
95°C	10s	45-50
60°C	40s	43-50
3.2. Three step PCR amplification program:		
Temperature	Time	Cycles
50°C	2min	
95°С	5min	
95°C	10s	Г
50-60°C	40s	45-50
72°C	30s	