



Ver. HB240919

Hieff Unicon™ Universal TaqMan Pro U+ qPCR Mix (One Tube)

Product description

Hieff Unicon™ Universal TaqMan Pro U+qPCR Mix (One Tube) is a multiplex fluorescent quantitative qPCR premix using a new generation antibody based hot start Taq enzyme. This product has good universality and supports fast programs and fully premixed forms. In the application scenario of DNA multiplex amplification, it has the following characteristics: (1) good universality of reagents, and excellent amplification performance when combined with most probes for amplification; (2) Support pre mixing of primer&probes, and the amplification performance of fully pre mixed reagents remains unchanged after 14 days of acceleration at 37 °C; (3) Support fast program, detection time ≤ 35min; (4) The addition of factors that effectively inhibit non-specific PCR amplification and enhance the amplification efficiency of multiplex qPCR reaction to the 2× Mix premix reagent has improved the sensitivity and specificity of the reagent's multiplex amplification; (5) This product adopts dUTP/UDG anti pollution system, where dUTP replaces dTTP, effectively preventing the risk of aerosol pollution and ensuring the accuracy of test results.

Components

Components No.	Name	16710ES60 (100T)	16710ES80 (1,000T)	16710ES92 (10,000T)	16710ES80 (15,000T)	16710ES80 (20,000T)
16710	2×TaqMan qPCR mix	100 T	1,000 T	1,000 T	1,000 T	1,000 T

Specifications

Hot Start	Built-in hot start
Detection method	Primer-probe detection
PCR method	qPCR
Polymerase	Taq DNA polymerase
Type of sample	DNA
Application equipment	<p>Applied Biosystems: 5700, 7000, 7300, 7700, 7900HT Fast, StepOne™, StepOne Plus™, 7500, 7500 Fast, ViiA™7, QuantStudio™ 3 and 5, QuantStudio™ 6,7,12k Flex;</p> <p>Bio-Rad: CFX96, CFX384, iCycler iQ, iQ5, MyiQ, MiniOpticon, Opticon, Opticon 2, Chromo4;</p> <p>Eppendorf: Mastercycler ep realplex, realplex 2 s;</p> <p>Qiagen: Corbett Rotor-Gene Q, Rotor-Gene 3000, Rotor-Gene 6000;</p> <p>Roche Applied Science: LightCycler 480, LightCycler 2.0; Lightcycler 96;</p> <p>Stratagene: MX3000P™, MX3005P™, MX4000P™;</p> <p>Thermo Scientific: PikoReal Cyclyer; Cepheid: SmartCycler; Illumina: Eco qPCR;</p> <p>SLAN:SLAN-96S,SLAN-96P..</p>

Shipping and Storage

The product is shipped with dry ice and can be stored at -15°C ~ -25°C for 1 year.



Instructions

1. Reaction System

Components	Volume (μL)	Final Concentration
2×TaqMan qPCR mix	12.5	/
Primer mix (10 μM)	x	0.1-0.5 μM
Probe mix (10 μM)	x	0.05-0.25 μM
Template	1-10	-
ddH ₂ O	up to 25	-

2. Reaction program

(1) Conventional Amplification Program

Cycle step	Temp.	Time	Cycles
Pollution Degradation*	37°C	5 min	
Initial Denaturation	95°C	5 min	1
Denaturation	95°C	15 s	45
Annealing/Extension**	60°C	30 s	

*This reaction step is not required: the preparation process can complete the digestion of the U-template without additional time.

**The annealing / extension temperature can be adjusted appropriately according to the experimental requirements.

(2) Fast Amplification Program (Q5)

Cycle step	Temp.	Time	Cycles
Initial Denaturation	95°C	90 s	1
Denaturation	95°C	5 s	40-45
Annealing/Extension**	60°C	15 s	

Notes

1. This product is only for scientific research purposes.
2. For your safety and health, please wear lab clothes and disposable gloves when operating.