

# Hieff UCF.ME™ Hotstart Sensitive Taq DNA Polymerase (5 U/μL)

## Product description

Hieff UCF.ME™ Hotstart Sensitive Taq DNA Polymerase is purified from a recombinant strain of *E. coli*, is effectively eliminated the DNA from *E. coli* and other microbial DNA contamination in the product after handling with the purification process specially developed by YEASEN. It is a hot start DNA polymerase with double blocking by double antibodies (Cat. No.31303ES). This product not only blocks the 5'→3' polymerase activity of Taq DNA polymerase, but also blocks the 5'→3' exonuclease activity. The antibody is inactivated after heating for 30 seconds at the pre denaturation temperature, DNA polymerase activity and exonuclease activity can be released. The double blocking characteristic can not only effectively prevent the nonspecific amplification caused by mismatch or primer dimer, but also effectively inhibit the decline of fluorescence signal caused by probe degradation.

## Specifications

Source	Recombinant <i>E. coli</i>
Storage Buffer	20mM Tris-HCl, 100mM KCl, 0.1mM EDTA, 1mM DTT, 0.5% NP-40, 0.5% Tween-20, 50% Glycerol, pH 8.0±0.2 @25°C
Unit Definition	Using activated zebrafish sperm DNA as a template/primer, the activity is defined as 1 unit (U) when incorporating 10 nmol of total nucleotides as acid-insoluble activity within 30 min at 74°C.

## Components

Name	14314ES72	14314ES76	14314ES80	14314ES92	14314ES93	14314ES98
	250 U	500 U	1 KU	10 KU	25 KU	100 KU
Hieff UCF.ME™ Hotstart Sensitive Taq DNA Polymerase (5 U/μL)	50 μL	100 μL	200 μL	2×1 mL	5 mL	20 mL

## Storage

This product should be stored at -25~-15°C for 2 years.

## Instructions

1. The recommended amount to add in a 20 μL system is 5-10 units (U), and the input quantity can be adjusted based on the actual results.
2. The reaction temperature is adjusted according to the T<sub>m</sub> value of the designed primers. Different qPCR instruments need different fluorescence signal acquisition time, please set according to the shortest time limit.

## Notes

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