

HiSense™ UDG heat labile

Cat. No. SCU-100

1. Product Information

Introduction

HiSense™ UDG (Uracil-DNA Glycosylase) heat-labile contains the enzyme found in the marine bacterium. Like the UNG from *E. coli*, it hydrolyzes uracil-glycosidic bonds in single- or double-stranded DNA, excising uracil and creating alkali-sensitive abasic sites in the DNA. These abasic sites can be hydrolyzed by endonuclease, heat, or alkali treatment. Depending on how the DNA is prepared, Uracil DNA Glycosylase can be used to achieve general, site-specific, or strand-specific Uracil-containing DNA cleavage. This enzyme shows lower thermostability and is therefore easier to inactivate.

Description

Uracil-DNA Glycosylase can be used to cleave DNA at any site where a deoxyuridylate residue has been incorporated. Because of the heat-lability of Uracil-DNA Glycosylase, heat labile the main application of this enzyme is the prevention of carryover contamination in PCR. In contrast to the enzyme from *E. coli*, using this preparation of UNG it is not necessary to freeze the PCR product immediately after amplification or to hold the reaction mixture at +70 °C.

2. Components and Storage

Components

Components	Size
Uracil-DNA Glycosylase (UDG) heat labile	100 µl (1 unit/µl)

Storage

Store at -20°C

Check the label on the product for expiration date.

3. Test Protocol

- 1) Add 1ul(1unit) UDG into 20~50ul PCR mix.
- 2) React at 25°C for 5~10min.
- 3) Inactivate UDG at 95°C for 2min
- 4) PCR with the UDG treated PCR mix