

Heat-labile Uracil-DNA Glycosylase (Heat-labile UDG)

Product Name	Cat. No.	Size
Heat-labile Uracil-DNA Glycosylase	B-2021	100 Units X 1
	B-2021-1	100 Units X 2
	B-2021-2	100 Units X 4

Package information

B-2021	Heat-labile Uracil-DNA Glycosylase (1 unit/ μ l) 100 μ l
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Description

Uracil-DNA Glycosylase catalyzes the hydrolysis of the N-glycosylic bond from uracil-containing single or double-stranded DNA. UDG is inactive on RNA and native, uracil-free DNA.

Usage Information

- Reaction temperature: 25°C ~ 37°C
- Inactivated by heating at 50°C for 5 min

Storage Buffer

20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.5 mM EDTA, 1 mM DTT, 0.5% Tween20, 0.5% NP40, 50% Glycerol

Source

Recombinant *E. coli* strain carrying the over-expressed modified gene of Uracil DNA Glycosylase from *Gadus morhua*

Definition of Activity Unit

One unit of the enzyme catalyzes the release 1 nmole of uracil from uracil-containing DNA template in 60 min at 37°C.

Applications

- Prevent carryover contamination in PCR.
- Increase the efficiency of site-directed mutagenesis procedures.
- Label oligonucleotide probes.

Protocol

1. Add 1 unit of Heat-labile UDG per 50 μ l PCR reaction
 2. Pre-incubate PCR reaction at 37°C for 3 min
 3. (Optional) UDG inactivated at 50°C in 5 min
 4. PCR reaction
- Required: All the PCR reaction uses dUTP instead of dTTP

● **Research Use Only**

● **Store at -20°C**