

Recombinant UNG/Uracil DNA Glycosilase

Catalog No. CSI13874 Quantity: 2000 U

CSI13875 1 X 10E4 U CSI13876 2 X 10E4 U

Alternate Names: Uracil DNA Glycosilase, Uracil DNA Glycosylase, UNG.

Description: Uracil DNA Glycosilase (UNG) catalyses the release of free Uracil from Uracil-containing

DNA. UNG efficiently hydrolyzes uracil from single-stranded or double-stranded DNA, but

not from oligomers (6 fewer bases).

Physical Appearance: Sterile Filtered colorless solution.

Source: E.coli.

Formulation: UNG solution in 10 mM Tris-Hcl (pH-7.4 at 25°C) + 50 mM KCl + 1 mM DTT + 0.1 mM

EDTA +0.1 mg/ml BSA and 50% glycerol.

Inhibition & Inactivated by heating at 95°C for 10 min. Enzyme activity is partially restored at

Inactivation: temperatures lower than 55°C.

10X UNG Reaction

Buffer:

200 mM Tris-HCI (pH 8.0 at 25°C) + 10 mM DTT and 10 mM EDTA.

Specific Activity: The Specific Activity was found to be 5 U/µl.

Unit Definition: 1 Unit of the enzyme catalyzes the release of 1 nanomole of uracil-containing DNA

template in 60 min at 37°C

Reaction Conditions: 1X UNG Reaction Buffer, incubate at 37°C.

UNG is active over a broad pH range with an optimum at pH-8.0, doesn't require divalent cation, and is inhibited by high ionic strength (>200mM). The abasic sites formed in DNA

by UNG may be cleaved by heat, alkali-treatment or endonucleases that cleave

specifically at abasic sites.

Applications: Glycosilase mediated single nucleotide polymorphism detection (GMPD).

Site-directed mutagenesis.

As a probe for protein-DNA interaction studies. Rapid and efficient cloning of PCR products. Elimination carry-over contamination in PCR.

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Storage & Stability: Uracil DNA Glycosilase although stable at 15°C for 1 week, should be stored desiccated

below -18°C.

Please prevent freeze-thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY, NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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