

## Uracil DNA Glycosylase (UDG)

**Description:** Uracil DNA glycosylase (UDG) excises uracil residues from DNA. It is highly specific in cleaving the glycosidic bond between uracil and deoxyribose sugar of the DNA chain.

**Unit Definition:** One unit of UDG releases 50 picomoles of uracil from an oligomeric substrate containing single dUMP residue in 15 minutes at 37° C in a 50 µl reaction volume.

**Assay Buffer: (1X)** 50 mM Tris-HCl (pH 7.4), 1 mM EDTA, 1 mM DTT, 25 µg/ml BSA.

Buffer Supplied at 10X concentration.

**Storage Buffer:** 20 mM Tris-HCl (pH 7.4), 100 mM NaCl, 1 mM EDTA, 1 mM DTT, 50% glycerol and 100 µg/ml BSA.

**Application:** UDG is used in a wide variety of applications in molecular biology research e.g., generation of the site directed / nested deletion mutants, study of DNA-Protein interaction, cloning of PCR amplified DNA, elimination of carry over contaminants during PCR, DNA sequencing, etc.

**Performance Test:** Enzyme tested for efficiency in eliminating carryover contamination during PCR amplification.

**Store at -20°C**

**Note:** *E. coli* UDG does not require any cofactors and is active in the presence of EDTA in various buffers but is inhibited by salts (> 50 mM NaCl)

### Ordering Information:

Product	Size	Cat #
UDG	200 U	105885

## Nuclease Free BSA

**Description:** Nuclease free BSA is checked for the absence of contaminating DNases, RNases and Proteases. The nucleases commonly found in BSA are inactivated by acetylation.

**Application:** It is used either as a carrier protein or as an enzyme stabilizer. Genei uses this BSA for the stability of all its enzyme preparations and it meets the stringent purity specification.

BSA is supplied in deionized water.

**Store at -20°C**

### Ordering Information:

Product	Size	Cat #
Nuclease Free BSA	20 mg	105399