

## EUROPE

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## Technical Data Sheet

# UNG

## Uracil-N-Glycosylase

RT-0610-03 • RT-0610-15  
[300 U] [1500 U]

### Description

*E.coli* uracil-DNA glycosylase (UDG or UNG) hydrolyses the release of free uracil from uracil-containing DNA. UDG efficiently hydrolyses single or double-stranded DNA, but not from oligomers (6 or less bases).

The Uracil-N-Glycosylase (UNG) is an enzyme that hydrolyses all single-stranded and double-stranded DNA containing dUTPs. Consequently, if all PCR amplifications are performed in the presence of a dNTPs/dUTP blend, by carrying a UNG step before every run it is possible to get rid of any previous undesired PCR product containing dUTP

### Source

Purified from *E.coli* expressing the *ung* gene of *E.coli* on a plasmid.

### Product details and content

Reagent (Catalogue #)	Description
UNG (RT-0610-03)	- 1 tube of 300 µL UNG (1 u/µL) - 1 tube of reaction buffer 10x (200 mM Tris-HCl pH8.0, 10 mM EDTA, 10 mM DTT)
UNG (RT-0610-15)	- 1 tube of 1,5 mL UNG (1 u/µL) - 5 tubes of reaction buffer 10x (200 mM Tris-HCl pH8.0, 10 mM EDTA, 10 mM DTT)

### Storage conditions

For long term storage the UNG should be stored at -15 °C to -25 °C in a constant temperature freezer.

When stored under these conditions the reagents are stable for 2 years.

Avoid repetitive freeze-thaw cycles.

### Protocol

If UNG is required, please add an initial step before the usual cycling protocol: 2 min at 50 °C.

(Hold at 50 °C when the cycling protocol is finished)

### Procedure when using any PCR or qPCR kits containing dUTP

Uracil-N-Glycosylase can be added to a final concentration of 0.01 u/µL: 0.5 µl of 1 u/µl UNG per 50 µl reaction

### Unit Definition

One unit is defined as the amount of enzyme that catalyses the release of 60 pmol of uracil per minute from doublestranded, uracil containing DNA.

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