





## Thermolabile UNG (Uracil N-Glycosylase)

Prevention of carry-over contaminations UNG, UDG

Cat. No.	Amount
PCR-353	200 units

**Unit Definition:** One unit of enzyme catalyzes the degradation of 1  $\mu$ g single-stranded uracil-containing DNA at 37 °C in 60 min.

For in vitro use only!

Shipping: shipped on blue ice

Storage Conditions: store at -20 °C

Additional Storage Conditions: avoid freeze/thaw cycles

Shelf Life: 12 months

**Form:** liquid (Supplied in 20 mM Tris-HCl pH 8.0, 50 mM NaCl,1 mM EDTA, 1 mM DTT, 50 µg/ml BSA and 50 % [v/v] glycerol)

Concentration: 1 unit/µl

## **Description**:

Thermolabile UNG is used in real-time PCR to prevent carry-over contamination of dU-containing DNA from previous reactions. Uracyl N-Glycosylase (UNG, UDG) catalyses the release of uracil from single and double stranded uracyl-containing DNA. The resulting abasic sites are susceptible to hydrolytic cleavage at elevated temperatures.

An amount of 0.1 units UNG can completely destroy up to 200 ng dU-containing DNA in 2 min at 50°C.

## **Recommended assay:**

Add 0.2  $\mu$ l (0.2 units) UNG for each 50  $\mu$ l of master mix and vortex thoroughly. The preparation of a master mix is crucial in quantitative PCR reactions to reduce pipetting errors.

An UNG treatment of 2 min at 50°C at the onset of thermal cycling removes uracil residues from dU-containing DNA and prevents it from serving as template. UNG is easily heat-inactivated at temperatures above 65°C in the following initial denataration step of the PCR.

## **Related Products:**

qPCR Core Kits Dual labeled fluorescent probes Custom primers

