



Heat-labile UNG

Catalog #	Pack size	Price(USD)
ZPH0502-S	1000U(1 U/ul)	\$300.00
ZPH0502-M	10000U(1 U/ul)	\$2700.00
ZPH0502-L	50000U(1 U/ul)	\$11000.00

Heat-labile contains the equally named enzyme found in the marine bacterium. It selectively degrades uracil-containing PCR products. After performing PCR or RT-PCR using dUTP instead of dTTP, PCR products remain intact after treatment with Heat Labile Uracil-DNA Glycosylase, whereas contaminating DNA (i.e., not amplified) is degraded. Heat Labile Uracil-DNA Glycosylase is completely and irreversibly inactivated by moderate heat treatment at 50°C for 2min, allowing contamination control in RT-qPCR. The enzyme hydrolyses the N-glycosylic bond between the deoxyribose sugar and the base in uracil-containing DNA leaving an abasic (apyrimidinic) site in DNA but does not modify uracils in RNA.

Heat Labile Uracil-DNA Glycosylase is highly active at 20–40°C. No cofactors or divalent cations are required for activity, and the enzyme is active in most PCR and RT-PCR buffers. Although the enzyme is active at pH 6.5–9.0, the optimal pH 7.5 is in 50 mM NaCl.

Features:

- UNG activity at 20-40°C
- Inactivated at 50°C 2min

Application:

- RT-qPCR
- LAMP

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