

Heat-labile Uracil-DNA Glycosylase

i. Product Description

Compared with ordinary UDG enzymes, Heat-labile UDG enzymes avoid the possible residual activity of conventional UDG enzymes after inactivation, which may degrade dU-containing amplification products at room temperature. It can react at room temperature and is highly sensitive to temperature. The enzyme can be irreversibly inactivated by heating at 50°C for 10 minutes.

ii. Advantages

Stability: High standard production process to achieve high product stability.

Fast: Contaminants can be degraded during the room temperature reaction system.

Compatibility: excellent compatibility with various PCR and qPCR systems

iii. Application case

PCR reaction is prepared according to the following system

Components	Volume (ul)	Final Conc.
2xGUEasy Hot Start Taq probe qPCR Master Mix	10	1×
Primer Mix (10uM)	N	0.1-0.5uM
Probe Mix (10uM)	N	50-250nM
Heat-labile Uracil-DNA Glycosylase (1U/ul)	1	0.04U/ul
Template	1-5	-
ddH ₂ O	up to 20ul	-

PCR reaction

Temperature	Time	Number of cycles	Purpose
25°C	2-10min	1	Degradation of templates containing U
95°C	1-5min	1	DG inactivation, template predegeneration
95°C	5-15s	40	degeneration
60°C	30s		Annealing/Extension

iv. Storage condition

Shipped in ice-pack, stored at -20°C, valid for two years.

v. Product Specification

Product	Catalog#	Size	Activity
Heat-labile Uracil-DNA Glycosylase	HU3104-02	200ul	200U
Heat-labile Uracil-DNA Glycosylase	HU3104-05	500ul	500U
Heat-labile Uracil-DNA Glycosylase	HU3104-1	1ml	1000U