

Uracil DNA Glycosylase

Product Handling Guide

Shipping:	On Dry or Blue Ice
Catalog number:	MDX054
Batch No.:	See vial
Concentration:	20 mg/mL

Store at -20 °C



Storage and stability:

Uracil DNA Glycosylase is shipped on dry or blue ice. On arrival store at -20 °C for optimum stability.

Expiry:

When stored under the recommended conditions and handled correctly, full activity of the kit is retained until the expiry date on the outer box label.

Unit Definition:

One unit is the amount of enzyme that catalyses the release of 60 pmol of uracil per minute from double stranded, uracil-containing DNA. Activity was measured by release of [³H]-uracil in a 50ml reaction mix containing 0.2mg DNA (10⁴-10⁵ cpm/mg) in 30 minutes at 37 °C.

Safety precautions:

Read and understand the SDS (Safety Data Sheets) before handling the reagents. Hardcopies of the SDS will be provided with the first shipment, thereafter they will be available upon request.

Quality control:

Bioline operates under ISO 13485 Quality Management System. Uracil DNA Glycosylase is extensively tested for activity prior to release.

Description

Uracil DNA Glycosylase (UDG) catalyzes the release of uracil from uracil-containing single or double-stranded DNA, but not from RNA or oligonucleotides (6 or fewer bases). UDG is active over a broad pH range with an optimum at pH 8.0, does not require a divalent cation, and is inhibited by high ionic strength (>200 mM). Uracil DNA Glycosylase is tested for purity (run on SDS-PAGE gel), presence and absence of endonucleases, nickases, exonucleases and RNases.

Source: Recombinant *E. coli* strain carrying the over-expressed modified gene of Uracil DNA Glycosylase from *E. coli*.

Kit components

Table 1

Component
Uracil DNA Glycosylase
10x Reaction Buffer

Reagent Specifications

10x Reaction Buffer
0.25 M Tris-Cl, 1 mM EDTA, 10 mM DTT, pH 8.0.

Related Products	Cat. No.
Hi-throughput dUTP qPCR Mix	MDX031
dUTP, 100mM	MDX059
dUTP Mix, 100mM	MDX058

Technical Support

For any technical enquiries, please contact our Technical Support team via email at: mbi.tech@meridianlifescience.com

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