

Active Recombinant Marine bacteria marine bacteria

Cat. No. UDG-59B Lot. No. (See product label)

SPECIFICATION

Product Overview	A recombinant E. coli strain carrying the recombinant thermolabile Uracil DNA Glycosylase gene isolated from a marine bacteria.
Species	Marine bacteria
Source	E.coli
Description	Thermolabile Uracil-DNA Glycosylase removes uracil from DNA by hydrolyzing the N-glycosylic bond between the deoxyribose and the base leaving an AP (apurinic or apyrimidinic) site. This enzyme (1-10 units) is completely inactivated by a 10 minute incubation at temperatures greater than 50°C in the 1x reaction buffer as measured in the unit characterization assay.
Bio-activity	30,000 U/mg
Molecular Mass	26,218 Daltons
Purity	>98% by SDS-PAGE
Unit Definition	1 unit is defined as the amount of Thermolabile UDG required to release 1nmol of Uracil from dU-containing DNA in one hour at 37°C.
Storage	-25 to -15°C
Concentration	1,000 U/ml

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Storage Buffer

Supplied in: 50mM Tris-HCl, 50mM NaCl, 1mM DTT, 0.1mM EDTA, 50% glycerol pH 7.5 @ 25°C. Supplied with: 10X Reaction Buffer: 700mM Tris-HCl, 100mM NaCl, 10mM EDTA, 1 mg/mL BSA pH 8.0 @ 25°C

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