
Product Datasheet

UNG E.Coli Active (orb1994998)

Description

UNG E.Coli Recombinant produced in E.Coli is a

purified ...

Preservatives

UNG protein solution (5U/ul) containing 10mM Tris-HCl (25°C, pH 7.4), 50mM KCl, 0.1 mM EDTA, 1mM DTT, 0.1mg/ml rAlbumin & 50% glycerol.

Form/Appearance

Sterile Filtered clear solution.

Storage

Stability: Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles

Note

For research use only

Application notes

Applications: Treatment of 0.1µg of uracil containing DNA with 1U UDG for 10 min. at 37°C renders the DNA incapable of being copied by DNA polymerase. The enzyme can be 95% heat killed by incubation at 95°C for 10 minutes. Since UDG remains partially active following heat treatment at 95°C, it is recommended that uracil glycosylase inhibitor be added to prevent degradation of product DNA. Alternatively, reaction products can be immediately extracted with phenol/chloroform. Unit Definition: 1 unit is defined as the amount of enzyme that catalyzes the release of 60pmol of uracil/minute from double-stranded, uracil-containing DNA. Activity is measured by release of [3H]-uracil in a 50µl reaction containing 0.2µg DNA (104-105 cpm/µg) in 30 min. at 37°C

Purity

Greater than 97.0% as determined by SDS-PAGE.

Source

Escherichia Coli

Expiration Date

12 months from date of receipt.