

Proteinase K, recombinant

RUO For Research Use Only

REF W6050

DESCRIPTION

Proteinase K is a subtilisin-like endolytic protease that is isolated from the saprophytic fungus *Tritirachium album*. It has a high activity that is stable across a wide range of pH and temperature conditions and is suited to short digestion times. Proteinase K is active in a wide range of temperatures and buffers with optimal activity between 20 and 60°C and a pH between 7.5 and 12.0. Calcium is not essential to the function of proteinase K.

PROPERTIES

- Form : White to Light Yellow Powder, Lyophilized from purified liquid enzyme
- Source : Mutated gene from *Tritirachium album* limber, Recombinant
- Specific Activity : ≥30U/mg dry weights
- Molecular Weight : 29.3 kDa

STORAGE CONDITIONS

- Store at 4 to -20°C recommended; Proteinase K powder is stable at room temperature in two years.
- Expiration : Three years if kept below 4°C.
- Dilution Buffer: none specific, distilled water recommended.

APPLICATION

- Isolation of plasmid and genomic DNA
- Isolation of RNA
- Inactivation of RNases, DNases and enzymes in reactions
- Removal of enzymes from DNA to improve cloning efficiency
- PCR purification

QUALITY CONTROL ANALYSIS:

Activity Assay and Unit Definitions

One unit is defined as the amount of enzyme that will liberate 1 μmol of tyrosine per minute at 37°C, pH7.5.

DNase Activity

none detectable enzyme activity with λ DNA after 6 hours incubation at 37°C.

RNase Activity

none detectable of ribnuclease activity after 16 hours incubation at 25°C

Protein Purity

over 99% (Native-PAGE and SDS-PAGE assay)

ORDERING INFORMATION

Product	Cat No.	Package
Proteinase K, recombinant	W6050	22 mg

Technical Support



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