

DESCRIPTION

Proteinase K is a nonspecific serine protease that hydrolyzes a variety of peptide bonds. This recombinant form of proteinase K is similar to the wild type, but with increased specificity and stability at room temperature (RT). Proteinase K is active on a wide range of temperatures and buffers with optimal activity between 15 and 75°C and pH between 4 and 11. Activity is stimulated with SDS, urea and EDTA buffers.

Form: Lyophilized White Powder.

Source: Isolated from a recombinant yeast expressing modified gene of *Tritirachium limber*.

Concentration: 34U/mg.

Size: 100mg.

Dilution Buffer: 20 mM Tris-HCl, 1 mM CaCl₂, 50% glycerol or dH₂O, pH7,4 at 25°C.

Molecular Weight: 29,3 kDa.

Storage Conditions: Store at -20°C.

ACTIVITY ASSAY AND UNIT DEFINITIONS

One unit will release 1 μmol of tyrosine per minute at 37° C, pH7.5.

Dnase and Rna Activity: not detectable. Special quality to use in molecular biology applications as well as all electrophoresis techniques.

APPLICATIONS

- Isolation of DNA and RNA in a broad variety of tissues;
- Glycoprotein modification in structural studies;
- PCR purification;
- Inactivation of RNAses, DNAses and enzymes in reaction.

For research purpose only. Not for use in diagnostic procedures or clinical purposes. For IN VITRO USE ONLY.