

# Proteinase K (High Conc.)

Catalog No.: RP02503

## Sequence Information

Species	Gene ID	Swiss Prot
Tritirachium album		

**Tags**  
Tag Free

**Synonyms**  
Proteinase K

## Product Information

Source	Purification
Pichia pastoris	> 95% by SDS-PAGE.

**Endotoxin**  
Please contact us for more information.

**Formulation**  
Lyophilized powder is recommended to dissolve in in 20mM Tris-HCl, 30mM NaCl, 5mM CaCl<sub>2</sub>, pH 7.2-7.4.

## Reconstitution

## Background

Proteinase K (E.C.3.4.21.64) is an extracellular serine endoproteinase produced by *Tritirachium album* Limber. 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 . Activity is stimulated when up to 2% SDS or up to 4 M urea are included in the reaction . Calcium is important for thermostability of Proteinase K but it is not required for catalysis, therefore Proteinase K is also active in buffers containing chelating agents such as EDTA .

## Basic Information

**Description**  
No DNase contamination detected by digestion of λ DNA at 37 °C for 6 hours. No RNases contamination detected by digestion of λ DNA at 25°C for 16 hours. Host genomic DNA/RNA is no residual detected by PCR.

**Bio-Activity**  
Measured by its digestion activity. The activity is >30U/mg. One unit will digest Casein at 37°C (pH 7.5) per minute to produce equal absorbance as 1.0 μmol of L-tyrosine.

**Storage**  
Store the lyophilized protein at 2-8°C for up to 18 months and ≤ -20°C for 3 year. Avoid repeated freeze/thaw cycles.

## Contact

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