

Proteinase K

Catalog No.: RP02503BNLQ

Sequence Information

Species Gene ID

Tritirachium
album

Swiss Prot Tags

NO-tag

Synonyms

Proteinase K

Product Information

Source Purification

Pichia pastoris

Calculated MW Observed MW

28.90 kDa 29 kDa

Endotoxin

Formulation

Reconstitution

Supplied as a 0.22 µm filtered solution in 20mM Tris-HCl, 30mM NaCl, 5mM CaCl₂, 50% Glycerol, pH 7.2-7.4.

Background

Proteinase K (E.C.3.4.21.64) is an extracellular serine endoprotease 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.

Activity

Measured by its digestion activity. The activity is >600 U/mL (>32U/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.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at 2-8°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data

No validation data available.