

Assay Genie | Proteinase K

Catalog No. CRBP02503

Category Recombinant protein

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 >6000 U/mL (>32U/mg). One unit will digest Casein at 37°C (pH 7.5) per minute to produce equal absorbance as 1.0 μ mol of L-tyrosine.

Sequence Information

Species Tritirachium album

Tags Tag Free

Synonyms Proteinase K

Product information

Source Pichia pastoris

Purity > 95% by SDS-PAGE.

Endotoxin Please contact us for more information.

Formulation Supplied as a 0.22 μ m filtered solution in 50mM Tris-Hcl,30mM NaCl,50% Glycerol, pH 7.2-7.4.

Storage This product is stable at 4°C for up to 6 months and \leq -20°C for up to 1 year from the date of receipt.
For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.
Avoid repeated freeze/thaw cycles.

Background

Proteinase K (E.C.3.4.21.64) is an extracellular serine endoproteinase produced by Tritirachinm 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.



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