PRODUCT INFORMATION

Proteinase K Solution

Catalog number	C15003LQ-20MG / C15003LQ-1G
Set package	20 mg/mL / 20 mg/mL, 50 mL
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.
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.
Species	Tritirachium album
Tags	Tag Free
Source	Pichia pastoris
Endotoxin	Please contact us for more information.
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.
Purification	> 95% by SDSPAGE.
Formulation	Supplied as a 0.22 μm filtered solution in 20mM Tris-Hcl, 30mM NaCl, 50% Glycerol, pH 7.2-7.4.
Storage	This product is stable at 2-8°C for up to 18 months，and ≤ -20°C for up to 3 years from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze/thaw cycles.

For Research Use Only.