

PRODUCT INFORMATION

Proteinase K Solution

v. 230701

Catalog number	C15003LQ-20MG / C15003LQ-1G
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 <i>Tritirachium album</i> 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	<i>Tritirachium album</i>
Tags	Tag Free
Source	<i>Pichia pastoris</i>
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 μ mol of L-tyrosine.
Purification	> 95% by SDS-PAGE.
Formulation	Supplied as a 0.22 μ m 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 \leq -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.

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