

PRODUCT INFORMATION

Proteinase K Powder

Catalog number	C15002-20MG / C15002-1G
Set package	20 mg/BTL / 1 g/BTL
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>
Endotoxin	Please contact us for more information.
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 μ mol of L-tyrosine.
Purification	> 95% by SDS-PAGE.
Formulation	Lyophilized powder is recommended to dissolve in 20mM Tris-HCl, 30mM NaCl, 50% Glycerol, 5mM CaCl ₂ , pH 7.2-7.4.
Storage	Store the lyophilized protein at 2-8°C for up to 18 months and \leq -20°C for 3 year. Avoid repeated freeze/thaw cycles.

For Research Use Only.

