EN010 Proteinase K Protein
DATA SHEET

Catalog Number	EN010
Product Name	Proteinase K Protein
Alias	Endopeptidase K, Tritirachium alkaline proteinase, Tritirachium album serine proteinase, protease K, Tritirachium album proteinase K
Size	1g-1kg, bulk
Species	Engyodontium album
Expression Host	Yeast
CAS Number	39450-01-6
Applications	Genomic DNA extraction, Enzyme digestion and removal
Source	This product is derived from yeast cells expressing Proteinase K gene of Engyodontium album.
Purity	RNase and DNase free.
Endotoxin	None detected
Cross-Reactivity	No cross-reactivity with other antigens or proteins.
Buffer	Dilution Buffer: 20mM Tris-HCl, pH 7.4; Storage buffer: 20mM Tris-HCl, 50% Glycerol, pH 7.4.
pH Range	4.0-12.0 (Optimum PH 7.5-9.0)
Temperature Range	37-70°C
Specific Activity	≥ 30 units/mg
Molecular Weight	29.3 kDa
Background	Proteinase K is a broad-spectrum serine protease. The enzyme was discovered in 1974 in extracts of the fungus Engyodontium album (formerly Tritirachium album). Proteinase K is able to digest hair (keratin), hence, the name "Proteinase K". The predominant site of cleavage is the peptide bond adjacent to the carboxyl group of aliphatic and aromatic amino acids with blocked alpha amino groups. It is commonly used for its broad specificity.
Storage	Lyophilized powder: store at 4 °C; Liquid: store at -20 °C.
Shipping Condition	Transport at room temperature
Stability	Lyophilized powder: store at -20 °C for 3 years; Liquid: maintain stable at ambient temperature for 12 months.

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