

Prepgene
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Store at -20°C

Proteinase K, Genomic PCR Grade

Cat. # 501-PK

Product: Proteinase K, *Tritirachium album*
M.W. 28,500
E.C. 3.4.21.14

Concentration: 20 mg/ml, Approximately 600u/ml

Volume: 5 ml

Storage and Concentration: The undiluted enzyme is stable for at least 1 year when stored at -20°C.

Description: Proteinase K is an endolytic protease that cleaves peptide bonds at the carboxylic sides of aliphatic, aromatic or hydrophobic amino acids. Proteinase K is classified as a serine protease. The smallest peptide to be hydrolysed is a tetrapeptide.

DNA Extraction lysis reagent for DNA tests & genotyping: The Proteinase K solution is useful when a small amount of biological samples are processed, and therefore when it is difficult to weigh Proteinase K powder. Add the enzyme solution to E-Prep reagents at the final concentration of 0.5-1.0 mg/ml (25-50 µl Proteinase K solution per 1 ml E-Prep reagent). Follow the instruction manuals for E-Prep Reagent Protocol/Manual for each blood, blood stain, buccal swab, hair root DNA genotyping. Once diluted in E-Prep reagents, Proteinase K is stable for ~24 hrs.

Other applications: Proteinase K digests native proteins very effectively. It can therefore be used to remove DNases and RNases when isolating DNA and RNA from tissues or cells.

Unit Definition: One unit of the enzyme liberates folin-positive amino acids and peptides corresponding to 1µmol tyrosine in 1min at 37°C using denatured hemoglobin as substrate.

Quality Control: Tested for the absence of endo-, exodeoxyribonucleases and ribonucleases.

Related Products

Products	Description	Cat #	Price (US \$)
E-Prep DNA Extraction Lysis Reagent	500 rxns (50 ml)	601-P	195
E-Prep DNA Extraction Lysis Reagent	1000 rxns (100 ml)	602-P	345
Proteinase K Solution	All types of biological samples(100 mg)	501-PK	99

This product is distributed for laboratory use only. CAUTION: Not for diagnostic use. The safety and efficacy of this product in diagnostic or other uses has not been established.