

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.

Mouse tail lysis for DirectPCR-assisted genotyping: The Proteinase K solution is useful when a small number of tails are processed, and therefore when it is difficult to weigh Proteinase K powder. Add the enzyme solution to DirectPCR reagents at the final concentration of 0.5-1.0 mg/ml (25-50 µl Proteinase K solution per 1 ml DirectPCR reagent). Follow the instruction manuals for DirectPCR-assisted genotyping. Once diluted in DirectPCR 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 \$)
DirectPCR-Tail	500 mouse tails (100 ml)	102-T	139
DirectPCR-Ear	500 mouse ears (50 ml)	402-E	139
DirectPCR-Yolk sac	Yolk sac (100 ml)	202-Y	139
DirectPCR-Cell	Cultured cell (100 ml)	302-C	139
Proteinase K Solution	All types of tissues (100 mg)	501-PK	99