

**DATA SHEET**

**Product Name:** Proteinase K, Standard Grade

**Catalog #:** CV-3031

**Alt:** Protease K Endopeptidase K Standard Grade Proteinase K  
Proteinase K Tritirachium alkaline proteinase

**Source:** Pichia pastoris, Recombinant

**Molecular Mass:** 28.9 kDa

**Protein Purity:** >90%

**Activity:** ≥25 U/mg

**Unit Definition:** One unit will hydrolyze urea-denatured hemoglobin to produce color equivalent to 1.0 umole (181µg) of tyrosine per minute at pH 7.5 at 37°C.

**Supplied As:** White Lyophilized Powder

**Resuspension:** Soluble in water (1–2 mg/ml)

**Storage:** Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

**Description:** A serine protease that displays the ability to digest native proteins, thereby inactivating enzymes such as DNase and RNase without recourse to a denaturation process. It retains its activity in presence of SDS and urea. It is inactivated by diisopropyl fluorophosphates (DFP) and phenyl methane sulfonyl fluoride (PMSF). It is not inhibited by iodoacetic acid, the trypsin-specific inhibitor TLCK, the chymotrypsin-specific inhibitor TPCK, and pchloromercuribenzoate.

***For research use only. Not for use in humans.***