

**DATA SHEET**

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

**Catalog #:** CV-3029

**Alt:** Proteinase K, Endopeptidase K, Tritirachium alkaline proteinase, Protease K, Molecular Grade Proteinase K

**Source:** Tritirachium album limber gene, recombinant

**Molecular Mass:** 28.9 kDa

**Purity:** >99%

**Activity:**  $\geq 30$  U/mg

**Unit Definition:** One unit is defined as the amount of protease that cleaves the FITC-labeled casein substrate to yield an amount of fluorescence equivalent to 1.0 nmol of unquenched FITC per minute at 37°C, pH 8.0

**Resuspension:** Soluble in water, yielding a clear colorless solution.

**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).

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