

## Proteinase K, Lyophilized Powder

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Catalog	Unit Size
TBS2119-0.5	0.5G
TBS2119-1G	1G
TBS2119-5G	5G

### DESCRIPTION

Proteinase K is commonly used for protein digestion, DNA extraction, RNA purification, direct PCR, and genotyping. The recombinant proteinase K enzyme is a mutant to the native protease, which gains higher specific activity and yield as well as wider pH and temperature range. The DNA-free nature of recombinant Proteinase K made it well-suited for isolating PCR and RT-PCR templates.

### MAIN FEATURES

**High purity:** >99.5% by reducing SDS-PAGE.

RNase and DNase: Free

DNA: Free

**Specific activity:**  $\geq 30$  units/mg of protein.

**Wider pH range:** The effective pH range of Proteinase K is pH 4.0~12.5.

### APPLICATION

- DNA, RNA, and phage purification.
- Protein digestion.
- Chromosomal DNA preparation for in situ hybridization, fingerprinting, colony or plaque hybridization, and pulse-field electrophoresis

### PACKAGE SIZE

0.5G, 1G or 5G / bottle

### STORAGE CONDISTIONS

The Proteinase K powder is stored at +2 to +8°C for shelf-life of 2 years. The expiration date is printed on the label.

### RECONSTITUTION

Proteinase K is a soluble form with an optimal pH range of 6.3- 7.5. It is recommended to reconstitute with a buffer compatible with the intended assay. The recommended working concentration is 0.1-5 mg/mL.

**Research use only.**