

## Product Information

### Proteinase K, 11 mg

**C/No.** K.RGT-9109-11mg  
**Packaging** 11 mg  
**Storage** - 20 °C

Apical Scientific Sdn Bhd  
7-1 to 7-4, Jalan SP 2/7  
Taman Serdang Perdana,  
43300 Seri Kembangan  
Selangor, Malaysia



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#### Description

Proteinase K is a protease that is widely used for protein digestion during nucleic acid extraction to remove unwanted proteins. It inactivates endogenous enzymes such as DNases and RNases during the isolation of high molecular weight nucleic acids.

#### Preparation Instruction

Dissolve powder in 50 mM Tris buffer, pH 8.0.

#### Specific Activity

≥ 40 U/mg

#### Unit Definition

One unit of the enzyme catalyzes the proteolysis of casein to tyrosine at the rate of 1.0 μmol tyrosine per minute at 37 °C, pH 7.5.

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#### Applications

- DNA/RNA extraction
- Digestion of unwanted proteins
- Removal of nucleases
- Mitochondrial Isolation

#### Stability

Reconstituted Proteinase K can be stored at 2 – 8 °C for at least 6 months.

#### Quality Control

##### DNase Assay

No detectable contaminating endonuclease or exonuclease activity.

##### RNase Activity

No detectable contaminating endonuclease or exonuclease activity.

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