

## Proteinase K Lyophilized Powder

**Cat. No: E-IR-R109U**

**Size: 1 g/ 10 g/ 100 g**

Cat.	Products	1 g	10 g	100 g	Storage
E-IR-R109U	Proteinase K Lyophilized Powder	1 g	10 g	100 g	2~8 ℃

### Introduction

Proteinase K is a kind of high activity Proteinase of subtilisin, which is used to degrade proteins in biological samples. It can be used to digest various proteins, and it can be used in a variety of molecular biology, cell biology and other related experiments, such as genomic DNA extraction, enzyme digestion and removal, cell permeability and so on.

Enzyme activity, > 30 U/mg. At 37 ℃, the amount of Proteinase K that can produce amino acids or polypeptides equivalent to 1 micromol of tyrosine Folin positive in one minute with hemoglobin as the substrate is defined as a unit of Proteinase K activity.

The effective pH range of Proteinase K is pH4.0~12.5, and the optimal pH range is pH7.5~8.0.

The optimum reaction temperature of Proteinase K is 65 ℃, but at 65 ℃ or higher, Proteinase K can also degrade rapidly. It is suggested that the optimum reaction temperature is 50~55 ℃.

### Specification parameters

<b>Source</b>	Yeast	<b>Appearance</b>	White loose powder
<b>MW.</b>	29 kDa	<b>CAS NO.</b>	39450-01-6
<b>Purity</b>	≥95% by SDS-PAGE	<b>E.C</b>	3.4.21.64
<b>Activity</b>	≥30U/mg	<b>DNase</b>	Free
<b>Buffer</b>	10mM Tris-HCl (pH 7.5) ,5mM CaCl <sub>2</sub>	<b>RNase</b>	Free

### Usage

**Reconstitution.** Dissolve the powder with ddH<sub>2</sub>O. It is recommended to keep the solution at 2~8 ℃. Use it as soon as possible after opening and please avoid pollution.

### Storage

Store at RT or lower temperature.

For long time storage, the lyophilized powder is stable for at least 12 months at 2~8 ℃.

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