

## Proteinase K Lyophilized Powder

**Catalog No:** E-IR-R109U

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

Cat.	Products	100 mg	1 g	10 g	100 g	Storage
E-IR-R109U	Proteinase K Lyophilized Powder	100 mg	1 g	10 g	100 g	2~8°C
<b>Manual</b>					<b>One Copy</b>	

This manual must be read attentively and completely before using this product.

If you have any problems, please contact our Technical Service Center for help.

Phone: 240-252-7368(USA) Fax: 240-252-7376(USA)

Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Website: [www.elabscience.com](http://www.elabscience.com)

Please kindly provide us the lot number (on the outside of the box) of the kit for more efficient service.

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

## 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 50% glycerin. It is recommended to keep the solution at 2~8°C. 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 two years at 2~8 °C.