Proteinase K Lyophilized Powder

Cat. No: E-IR-R109U **Size: 1 g/ 10 g/ 100 g**

Product Content

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

Source	Yeast	**Appearance**	White loose powder
MW.	29 kDa	**CAS NO.**	39450-01-6
Purity	≥95% by SDS-PAGE	**E.C**	3.4.21.64
Activity	≥30U/mg	**DNase**	Free
Buffer	10mM Tris-HCl（pH 7.5）,5mM $CaCl_2$	**RNase**	Free

Usage

Reconstitution. Dissolve the powder with ddH2O. 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 ℃.