

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	-20°C

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 pH 4.0~12.5, and the optimal pH range is pH 7.5~8.0.

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

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°C.

Use it as soon as possible after opening and please avoid pollution.

Storage

Store at -20°C for 12 months.

For Research Use Only