

Proteinase K Solution

Research Use Only

Product Code

91321

Component

Proteinase K Solution (20mg/ml) 1.0 ml

Storage Condition

Store at -20°C

Description

Proteinase K Solution is an endolytic protease that cleaves peptide bonds at the carboxylic sides of aliphatic, aromatic or hydrophobic amino acids.

The Proteinase K is classified as a serine protease. The smallest peptide to be hydrolyzed by this enzyme is a tetrapeptide.

Molecular Weight

28.9 kDa monomer

Activity Unit

> 30.0 U/mg

Applications

1. Isolation of genomic DNA from mouse tail.
2. Isolation of genomic DNA from cultured cells.
3. Removal of DNases and RNase when isolating DNA and RNA from tissues or cell lines.

Definition of Activity Unit

One unit of the enzyme causes an increase in absorbance of 1.0 at 260 nm when yeast RNA is hydrolyzed at 37°C and pH 5.0.

Quality Control

The absence of endo-, exo-deoxyribonucleases and ribonucleases is confirmed by appropriate quality tests.

Storage Buffer

10 mM Tris-HCl (pH 7.5), containing calcium acetate and 50% (v/v) glycerol

Storage and Stability

Proteinase K Solution is stable for 2 years when stored in a constant temperature freezer at less than -20°C.

Made in KOREA

This product was manufactured through ISO 9001 & 13485 system.