

# Proteinase K Solution

(20 mg/mL)

## Cat. No.

B-2008 1.0 ml X 1 tube  
B-2008-1 1.0 ml X 5 tubes

## PRODUCT INFORMATION

**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.

## Applications:

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

**Molecular Weight:** 28.9 kDa monomer

**Activity Unit:** > 30.0 U/mg

**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-, exodeoxyribonucleases and ribonucleases confirmed by appropriate quality tests.

**Storage Buffer:** 10 mM Tris-HCl (pH 7.5), containing calcium acetate and 50% (v/v) glycerol.

## Product Use Limitations

This product is sold for research purposes only.

This is not to be used for human diagnostic or drug purposes.

All claims must be brought within expired date.

## User Notes

Store at -20°C

Avoid multiple freeze-thaw cycles and exposure to frequent temperature changes.