

**Description:** Proteinase K is a non-specific serine protease with a very high specific activity. It has been used for isolation of mRNA, high molecular weight DNA and inactivation of other enzymatic activities. Proteinase K is active with or without the presence of SDS, EDTA and chaotropic salts.

Proteinase K is a broad-spectrum serine protease for general digestion of proteins in biological samples. The enzyme is free of RNase and DNase activities. The recommended working concentration for Proteinase K is 50 – 100 µg/mL in the majority of applications.

**Availability:** in both liquid (in 50 mM Tris-HCl pH 8.0, 1 mM CaCl<sub>2</sub>, 50 % glycerol) and lyophilized powder form.

#### Content

Ref No.	405102	405152	color
Proteinase K Solution	1 mL	5 x 1 mL	white
Datasheet	1	1	--

**Reaction buffer:** 50 mM Tris-HCl pH 7.5, 1 mM CaCl<sub>2</sub>.

**Application:** Proteinase K Solution can be used for nucleic acid purification

**Specific activity:** > 30 units/mg

**Unit definition:** One unit is defined as the amount of enzyme that liberates Folin-positive amino acids and peptides, corresponding to 1 pmole tyrosine under assay conditions in 1 minute using haemoglobin as substrate..

#### Quality control:

- Digestion activity
- No detectable exo /endonuclease activity
- Absence of RNase contamination

**Stability and storage:** Proteinase K Solution is stable at RT for short time (up to 4 days). For long-term storage, we recommend -20 °C.