

FUJIFILM**Wako**Code No. 161-28701 (5mL)
169-28702 (25mL)

Proteinase K, recombinant, Solution

Proteinase K is a type of serine protease that cleaves peptide bonds in the carboxyl groups of hydrophobic aliphatic and aromatic amino acids. The enzyme is used for purification of nucleic acids because it rapidly degrades and inactivates DNase and RNase. This product is tested to ensure the activity of DNase and RNase as a molecular biology grade.

【Product Detail】

Activity : Indicated on label

Concentration : 20 mg/mL

Formulation : 50 mmol/L Tris-HCl (pH 8.0), 3 mmol/L CaCl₂
and 50% Glycerol

Molecular Weight : 28.5 kDa

Optimum Temperature : 50-65°C

Optimum pH : 7.5-12.0

Source : Yeast expressed *Tritirachium album* Proteinase K

【Unit Definition】

One unit is defined as the amount of enzyme that releases 1 μ mol tyrosine (Folin-positive amino acid) from hemoglobin at 37°C per 1 minute.

【Procedure】

Nuclease inactivation

1. Add Proteinase K Solution to lysate. The final concentration of Proteinase K should be 50-400 μ g/mL.
2. Incubate the sample at 55°C for 1-3 hours. For complete nuclease digestion, overnight incubation is recommended.

【Storage】

- 20°C

【Packaging】

Code No.	Packaging
161-28701	5mL
169-28702	25mL

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