

Proteinase K-Solution

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Preparation Method

Proteinase K is commonly prepared as a 20 mg/ml stock solution in sterile water or in a solution of 10 mM Tris, pH 7.5 ,1 mM Ca(CH₃COO)₂.

Characterizations

Cat. No.	P105001
Product name	Proteinase K – Solution, Molecular Biology Grade
Source	Parengyodontium album (Tritirachium album)
Appearance	Clear, colorless liquid
Concentration	20 mg/ml
Storage buffer	10 mM Tris-HCl, pH 7.5 1 mM Ca(CH ₃ COO) ₂ 50% glycerol
Storage conditions	-20°C - +4°C Avoid direct UV-radiation/sunlight.
Shelf life	24 months when properly stored in its original, unopened container
Stability	Proteinase K Solution maintains activity ≥ 800 U/ml for at least 24 months, stored in its original, unopened container

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Applications

- Nucleic acid purification by inactivating nucleases when extracting DNA and RNA from yeast, bacteria, and mammalian cell & plant cell lysates
- Improves cloning efficiency of PCR products
- Sample preparation for quantification of DNA adduct levels by accelerator mass spectrometry
- Inactivation of enzyme cocktails in ribonuclease protection assays
- Added to extraction procedures to optimize RNA yields from primary breast tumors for microarray studies
- Detection of Bovine Spongiform Encephalopathy proteins which are uniquely resistant to proteolytic degradation.
- Tissue digestion (denatures proteins) as an alternative sample preparation approach for quantitative analysis using liquid chromatography—tandem mass spectrometry.
- Specifically modify cell surface proteins to analyze membrane structures for protein localization
- Generates protein fragments used in the characterization of functional studies

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