

Product insert

Proteinase K solution 50 µg/µL

For Research Use Only. Not for use in diagnostic procedures.

Product overview

Proteinase K is a serine protease active against a wide variety of proteins. Proteinase K is useful for a variety of applications such as purification of nuclease-free plasmids, high molecular weight genomic DNA and intact RNA.

Proteinase K solution (2 mL) is provided at 50 µg/µL in the following DNase and RNase-free buffer: 50% glycerol, 50 mM Tris-HCl [pH 7.5], 0.1 M NaCl, 0.1 mM EDTA, 1 mM DTT, 10 mM CaCl₂, 0.1% Triton® X-100.

Proteinase K is stable over a wide pH range (4.0-12), with optimal pH range of 6.5-9.5.

Proteinase K is active at room temperature to 65 °C, and is most active at 55-65 °C. This enzyme functions optimally at 65 °C and a typical incubation time would be 15 minutes with regular vortexing. The enzyme can be completely inactivated through incubation at 95 °C for 10 minutes.

We recommend including a Proteinase K treatment to increase the efficiency of lysis in DNA and RNA purification protocols.

Proteinase K is active under denaturing conditions such as 0.5% to 1% SDS or 1 M to 5 M urea.

Storage

Proteinase K solution should be stored at -20 °C (frost free) when not in use. This enzyme is guaranteed to retain full activity for 12 months from date of purchase when stored as recommended.

Ordering information

Cat no.	Description	Volume
MPRK092	Proteinase K	2 mL

Safety information

The SDS for Proteinase K solution can be accessed via our web shop: shop.biosearchtech.com.




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