

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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