

# Proteinase K Solution

Shipping: On Dry/Blue Ice

Catalog numbers

Batch No.: See vial

BIO-37084: 5ml@ 20mg/ml

BIO-37085: 5 x 5ml@ 20mg/ml



A Meridian Life Science® Company

Store at -20°C

## Storage and stability:

Proteinase K Solution is shipped on dry/blue ice. On arrival store at -20°C for optimum stability.

## Expiry:

When stored under the recommended conditions and handled correctly, full activity is retained until the expiry date on the outer box label.

## Safety precautions:

Harmful if swallowed. Irritating to eyes, respiratory system and skin. Please refer to the material safety data sheet for further information.

## CAS Number:

39450-01-6



Xi: IRRITANT  
Xn: HARMFUL

## Quality control specifications:

Proteinase K is extensively tested for activity prior to release.

## Notes:

Research use only.

## Description

Proteinase K is an enzyme used to digest most proteins in molecular-biological techniques. The enzyme may be used at 56°C for up to 4 hours, or 37°C for overnight incubations. Proteinase K is available as a powder or as a stabilized stock solution (20mg/ml). Proteinase K solution is stabilized with a specially formulated buffer, and can be used directly from the freezer.

## Features

- Broad-spectrum serine protease
- Active under denaturing conditions
- Stable at high temperatures
- Molecular biology grade
- Available as powder and stabilized stock solution

## Applications

- Inactivation of RNases/DNases during nucleic acid extraction
- Protein modification
- General protein digestion
- Determination of enzyme localization

## Characteristics

<b>Concentration:</b>	20mg/ml
<b>Specific Activity:</b>	≥46.1 units/mg protein
<b>Contaminants:</b>	<b>RNase Activity:</b> No detectable ribonuclease activity detected with MS2RNA after 6-hour incubation at 37°C <b>DNase Activity:</b> No detectable nicking activity detected with pBR322 after 6-hour incubation at 37°C
<b>Unit definition:</b>	One unit is defined as the amount of enzyme that will liberate 1.0µmol of tyrosine per minute at 37°C, pH 7.5.

## Associated products

Product Name	Pack size	Cat. No.
Quick-Stick Ligase	50 Reactions	BIO-27027
ISOLATE II Genomic DNA Kit	50 Preps	BIO-52066
ISOLATE II Plant DNA Mini Kit	50 Preps	BIO-52069

## Citations:

1. Thaler, A. D., *et al. Cons. Gene. Res.* **2(1)**, 101-103 (2010).
2. Teague, B., *et al. PNAS* **107(24)**, 10848-10853 (2010).
3. Rolfsmeier, M. L., *et al. J. Bacteriol.* **192(19)**, 4954-4962 (2010).
4. Arpanahi, A., *et al. Genome Res.* **19**, 1338-1349 (2009).
5. Schwenkenbecher, J.M., *et al. J. Medical Entomol.* **46(3)**, 610-614 (2009).
6. Jo, K., *et al. Meth. Mol. Biol.* **544**, 29-42 (2009).

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