

Proteinase K Solution

Shipping: On Dry/Blue Ice

Catalog numbers

Batch No.: See vial

BIO-37084: 5 mL@ 20 mg/mL

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

Store at -20°C

meridian BIOSCIENCE™

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:

For research or further manufacturing 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 (20 mg/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

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

Associated products

| Product Name | Pack size | Cat. No. |
|-------------------------------|-----------|-----------|
| 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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