

Proteinase K, soluble

LOT: See product label

EXPIRY DATE: See product label

ORDERING INFORMATION

CAT. NO.	SIZE	PACKAGE CONTENT
BR1101001	1.25 ml	1.25 ml Proteinase K solution
BR1101002	10 ml	10 ml Proteinase K solution

COMPONENT

COMPOSITION

Proteinase K solution

Soluble Proteinase K, ~20 mg/ml in 10 mM Tris-HCl buffer, pH 7.5

STORAGE

4°C (until expiry date – see product label)

FEATURES

- Exceptional purity suitable for the most sensitive applications
- PCR-grade for highest performance

APPLICATIONS

- Nonspecific protein degradation
- Nucleic acid purification
- Deactivation of nucleases in enzymatic reactions

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DESCRIPTION

biotechrabbit™ Proteinase K is an active endopeptidase that is effective with native proteins, allowing endogenous RNases and DNases to be inactivated rapidly. The robust enzyme is stable over a wide pH range (4–12.5) and remains fully active for several hours when incubated at pH 6.5–9.5. The exceptional purity of the enzyme ensures that it is ideally suited for preparing PCR templates, as it is free of RNases, DNases and DNA. biotechrabbit Proteinase K is available as an aqueous solution or lyophilized powder.

USEFUL HINTS

Inhibitors

The enzyme is not inactivated by metal ions, chelating agents (such as EDTA), sulfhydryl reagents, or trypsin and chymotrypsin inhibitors.

Activators

The Proteinase K activity is stimulated by denaturing agents (SDS and urea). The presence of SDS can produce a seven-fold increase in Proteinase K activity.

pH Optimum

Proteinase K is stable over a broad pH range (4–12.5). The enzyme retains its full activity for several hours when incubated at a pH between 6.5 and 9.5.

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CERTIFICATE OF ANALYSIS

Quality Control

Protein concentration

The protein concentration is analyzed by Biuret assay (20 mg, +/- 2 mg).

Protease activity

The activity is analyzed with hemoglobin as substrate at 37°C (>600 U/ml).

Absence of nuclease activity

The enzyme is tested for absence of endonuclease and nicking activities.

RNase contamination

The enzyme is tested for absence of RNase activity.

DNA contamination

The enzyme is tested for DNA (threshold 1 pg/mg).

Bioburden

The enzyme is tested for bioburden (<1 CFU/ml).

Quality confirmed by: Head of Quality Control

SAFETY INSTRUCTIONS

For safety instructions please see Safety Data Sheets (SDS)/Sicherheitshinweise finden Sie in den SDS unter:
<http://www.biotechrabbit.com/support/documentation.html>.

USEFUL HINTS

- Visit Applications at www.biotechrabbit.com for more products and product selection guides.
- Most biotechrabbit products are available in custom formulations and bulk amounts.

CONTACT BIOTECHRABBIT

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Legal Disclaimer and Product Use Limitation

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valid from 08.12.2016