

Product of the Month

Get **20%** discount* now!

SERVA
Electrophoresis

November

*For all SERVA customers within the EU. Outside Germany and Austria online shop orders only. Can not be combined with other discounts, promotions etc.

Proteinase K, NGS Grade

Highest Quality for Effective Inactivation of Nucleases during Nucleic Acid Isolation

Proteinase K from *Tritirachium album* expressed recombinantly in *Pichia pastoris*

Proteinase K is a subtilisin-like serine protease with a broad substrate specificity. The enzyme degrades both terminal (exopeptidase activity) and internal (endopeptidase activity) peptide bonds.

The enzyme is active under wide range of reaction conditions, including elevated temperatures and presence of SDS. This recombinant enzyme is expressed in *Pichia pastoris*, and undergoes extensive purification to yield the highest quality product.

An extra purification step during production results in significantly increased solubility (2.5-fold), increased specific activity, and decreased DNA content.



Therefore, it is especially suitable for methods demanding highest quality like Next Generation Sequencing (NGS).

Application

Inactivation and degradation of nucleases during isolation of nucleic acids from tissues, pro- or eukaryotic cells.

Features

- Integrity of the isolated nucleic acids remains intact
- Contains no endo-, exo- and ribonucleases
- Solubility in water: ≥ 50 mg/ml
- DNA content: $\leq 0,1$ pg/mg enzyme
- Serine protease
- Increased stability by Ca^{2+} (1 - 6 mM)
- Activated by 0.2 - 1 % (w/v) SDS, 4 M urea
- Active in the pH range: 4.0 - 12.0 (optimum: 7.5 - 8.5)
- Active in the temperature range: 20 °C to 65 °C (maximum activity at 50 °C to 65 °C)
- Inhibition by the following serine protease inhibitors: AEBSF, PMSF and DFP
- Unaffected by metal-chelating agents and sulfhydryl inhibitors

Ordering Information

Product	Cat. no.	Size	List price	Special price*
Proteinase K recombinant, min. 35 mAnson-U/mg NGS grade	33757.01	25 mg	43.00 €	34.40 €
	33757.02	100 mg	113.00 €	90.40 €
	33757.03	500 mg	509.00 €	407.20 €

* The special prices are valid until November, 30th 2021.

For further information, please contact:

Dr. Judith Koch

Tel.: +49 6221 13840-44

E-Mail: Tech.Service@serva.de

SERVA Electrophoresis GmbH
Carl-Benz-Str. 7
D-69115 Heidelberg • Germany
www.serva.de