



Molbio and NGS Grade, for the digestion
of proteins in a variety of applications

Proteinase K

Molecular Biology Grade
NGS Grade **NEW**
Low-Temp **NEW**

*Broad-spectrum
serine proteases
with a very
high purity!*



Your success ist our aim.

www.genaxxon.com



OUR RECOMMENDATION FOR YOU

Info on the Internet: www.genaxxon.com/proteinase-k

PROTEINASE K SOLUTION (20mg/mL), MOLBIO GRADE

M3037.0001	1 mL
M3037.0005	5 mL

PROTEINASE K POWDER, MOLBIO GRADE

M3036.0100	100 mg
M3036.0500	500 mg
M3036.1000	1 g

PROTEINASE K POWDER, NGS GRADE^{NEW}

M3115.0100	100 mg
M3115.0250	250 mg

PROTEINASE K SOLUTION, LOW-TEMP^{NEW} (200 Units/mL)

M3116.0050	50 Units
M3116.0250	250 Units

DNASE I (EC 3.1.21.1)

M3028.0010	10 mg
M3028.0050	50 mg
M3028.0500	500 mg

IPTG, DIOXANE-FREE, MOLBIO-GRADE

M3198.0010	10 g
M3198.0025	25 g
M3198.0050	50 g

*Take note of our scaled discounts:
High discounts for large purchases!*

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Proteinase K

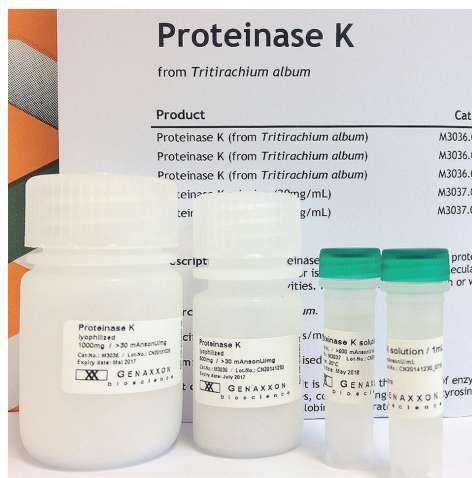
Available in various forms with different ranges of activity

Proteinase K is a broad spectrum endopeptidase with very high specific activity. It has an endo- and exoproteolytic activity. Activated by calcium (1 - 5mM), Proteinase K exhibits broad substrate specificity. It degrades many proteins in the native state even in the presence of detergents after hydrophobic amino acids.

✓ **Proteinase K Molbio and Proteinase K NGS Grade** is fully active up to 56°C as well as under denaturing conditions.

✓ **Proteinase K NGS Grade** has an increased specific activity and a remarkably high purity with a DNA content ≤ 0.1 pg/mg due to an extra purification step.

✓ **The Low-Temp Inactivation Proteinase K** form is highly active in a temperature range of 25°–40°C and can be inactivated at 60°C for 15-30 minutes.



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Proteinase K

Properties and Advantages

- **Broad-spectrum** serine proteases
- **Very High Purity:**
 - < 10 pg/mg (MB Grade) by qPCR
 - < 0.1 pg/mg (NGS Grade **NEW**) by qPCR
- **High Activity:**
 - MB Grade:** > 30 U/mg lyophilizate / > 40 U/mg protein
 - NEW: NGS Grade:** > 35 U/mg lyophilizate / > 45 U/mg protein
- **Available in various forms** with different ranges of activity
- **Active** at denaturing conditions
- **DNase and RNase** not detectable
- **NEW: Low-Temp Proteinase K Form** is easily inactivated after use at 60°C!

Applications

- Preparation of chromosomal DNA for PFGE
- Degradation of nucleases (DNase, RNase) in the preparation of nucleic acids, including the recovery of native RNA
- Isolation of genomic DNA from tissue of mouse tails
- Isolation of genomic DNA from cell cultures



GENAXXON

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