

# PROTEINASE K

A BROAD RANGE SERINE PROTEASE



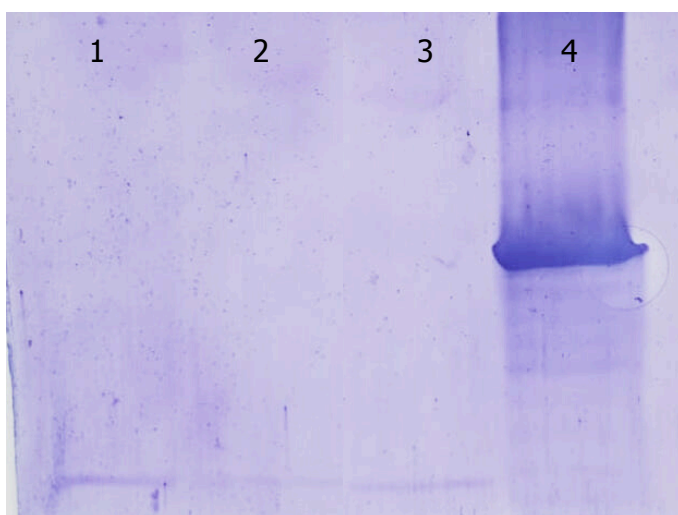
## PRODUCT DETAILS

DX/DT proteinase K is a serine protease that is widely used in molecular biology and biochemistry research. It is capable of digesting a wide range of proteins and peptides, making it a useful tool for various applications, such as DNA and RNA extraction, protein removal, and antibody stripping. Proteinase K is particularly effective at digesting denatured or unfolded proteins, making it an important reagent in sample preparation for downstream applications. The enzyme is stable in a wide range of conditions and can be used in various buffers and detergents.

## FEATURES

- Available in two forms – Lyophilised white powder Or Sterile liquid solution (20mg/ml)
- Highest specific activity and super stable at room temperature
- Active over the pH range 4 – 11 and temperature 15-75°C
- Can be used for digestion of any native and denatured protein
- Enzyme is active even in the presence of SDS, Urea, GnHCl and EDTA
- Powder is stable at room temperature for more  $\geq 3$  years

## DATA



### DETAILS:

BSA (3mg/ml) was digested with 50 $\mu$ g/ml of proteinase K from various sources. Incubated at 55°C for 1 hour. Final product was loaded on SDS-PAGE

- 1: BSA digest-Proteinase K from company M
- 2: BSA digest-Proteinase K from company Q
- 3: BSA digest-Proteinase K from DX/DT
- 4: Undigested BSA

Inference: BSA was completely digested and DX/DT proteinase K is comparable to other products in the market.

# TECHNICAL DATA

CERTIFICATE OF ANALYSIS (COA)



## GENERAL PROTOCOL TO USE

Proteinase K is used at a final concentration of 0.05–1 mg/mL for protein digestion in DNA/RNA purification, cell lysis, and protease digestion assays. It is typically incubated at 37–56°C and inactivated by heat (95°C for 10 min) or chemical inhibitors like PMSF. Avoid metal chelators as they may reduce enzyme activity.

## STORAGE CONDITIONS

### Lyophilised Powder

Stable at Room temperature for 3 years

### Sterile liquid (20mg/ml)

Stable at 4°C for one year

Stable at -20°C for 2 years

## CATALOG

- R2701 - Lyophilized powder, (1G)
- R2702 - Lyophilized powder, (100mg)
- R2703 - Sterile liquid, 5mL, (20mg/ml)
- R2704 - Sterile liquid, 25mL, (20mg/ml)

## QUALITY CONTROL

### Nuclease Test

No contamination of endo or exonucleases were detected. No contamination of RNase detected.

### Purity

SDS - PAGE purity  $\geq$  98%

## ORDERING INFORMATION

### Contact

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### More information

www.dxbidt.com