



Proteinase K

F-202L

20 mg/ml

Store at -20°C

Stable for one year from the assay date

Proteinase K is a non-specific serine protease having a very high specific activity. It has been used for the isolation of mRNA, high molecular weight DNA and to inactivate other enzymatic activities. Proteinase K is active with or without the presence of SDS and EDTA.

Source: *Tritirachium album*

Specific activity: >30 units/mg

Storage buffer:

20 mM Tris-HCl (pH 7.4)

1 mM CaCl₂

50 % Glycerol

Unit definition: One unit is defined as the amount of enzyme that liberates Folin-positive amino acids and peptides, corresponding to 1 μmol tyrosine under assay conditions in 1 minute using haemoglobin as substrate (1).

16-hour incubation: A 50 μl reaction containing 1 μg of λ DNA and 1.8 U of enzyme incubated for 16 hours at 37°C resulted in the same DNA band as produced without the enzyme.

Exonuclease activity: Incubation of 6 U for 4 hours at 37°C in 50 μl assay buffer with 1 μg sonicated ³H DNA (2x10⁵ cpm/μg) released <0.2 % of radioactivity.

Endonuclease contamination: Incubation of 1.8 U with 1 μg φX174 RFI DNA (4 hours, 37°C, 50 μl) gave <5 % conversion to RFII.

RNAse contamination: Incubation of 6.0 U with 1 μg MS2 RNA (4 hours, 37°C, 50 μl) resulted in the same RNA band as produced without the enzyme.

Reference: (1) Anson, M. L. (1938) *J. Gen. Physiol.* 22, 79.



WARRANTY

Finnzymes Oy warrants that this product will meet the specifications stated on the technical data section of this data sheet, and Finnzymes Oy agrees to replace the product free of charge if the product does not conform to the specifications. Notice for replacement must be given within 60 days.

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- That **ALL WARRANTIES OF MERCHANT ABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXCLUDED AND WAIVED;**
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