Specific Activity
38.6 U/mg

Storage Conditions
Store desiccated at -20°C upon receipt. Keep dry. Warm to room temperature before opening.
Do not inhale or ingest. Avoid exposure to eyes, skin, and mucous membranes. Proteinase K is a sensitizer and irritant. Wash thoroughly after handling.

Description
Proteinase K (EC 3.4.21.14) is a broad spectrum protease that is widely used in DNA purification. It is supplied as a lyophilized powder with a minimum specific activity of 30 U/mg at a reaction temperature of 35°C.

Unit Activity
One unit is defined as the amount of enzyme that will release 1 μmole of Folin positive amino acid in 10 minutes at pH 7.5 at 37°C using denatured hemoglobin as substrate.

Applications
Proteinase K completely hydrolyzes most proteins. It is commonly used in the isolation of mRNA and DNA, and is active in the presence of sodium dodecyl sulfate (SDS), agarose or acrylamide.

Nuclease Contamination
Deoxyribonuclease Contaminating Activity
<0.0001 U/mg

Ribonuclease Contaminating Activity
<0.0001 U/mg

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