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Datasheet for ABIN5706434

Proteinase K (*Tritirachium album limber*)

Overview

Quantity: 100 mg

Product Details

Purification: A lyophilized powder. Chromatographically purified to remove DNase and RNase activity
A280 at 1 mg/ml = 0.65 % Ribonuclease: None detected % Deoxyribonuclease: None detected

Biological Activity Comment: 31.4 units/mg

Application Details

Application Notes: Application Note: Proteinase K is specifically formulated for molecular cloning, nucleic acid research and protein/peptide structural analysis. One unit liberates one μ mole of Folin positive amino acids, measured as tyrosine, at 37° C at pH 7.5 using urea denatured hemoglobin as the substrate.

Comment: Synonyms: Protease K, Endopeptidase K
Background: Proteinase K is a broad-spectrum serine protease and is able to digest native keratin (hair), hence, the name "Proteinase K". The predominant site of cleavage is the peptide bond adjacent to the carboxyl group of aliphatic and aromatic amino acids with blocked alpha amino groups. It is commonly used for its broad specificity. Proteinase K is commonly used in molecular biology to digest protein and remove contamination from preparations of nucleic acid. Addition of Proteinase K to nucleic acid preparations rapidly inactivates nucleases that might otherwise degrade the DNA or RNA during purification.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent)
Buffer:	Buffer: None
Storage:	4 °C,-20 °C
Expiry Date:	6 months