Proteinase K

Cell Culture Tested

Product Code: TC687

Product Description :

CAS : 39450-01-6.
Molecular Weight : 28.9 kDa.
Proteinase K is a stable S8 family serine alkaline protease containing two disulfide bridges and one free Cys near His at the active site. It is used to digest proteins and remove contamination from nucleic acid preparations.

It degrades proteins even in the presence of detergents. Proteinase K cleaves peptide bonds at the carboxylic sides of aliphatic, aromatic, or hydrophobic amino acids. The smallest peptide to be hydrolyzed by this enzyme is a tetrapeptide.

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.

Quality Control:

Appearance
White to off-white lyophilized powder

Solubility
33.3 mg soluble in 1 mL of water

Activity
>= 30 U/mg protein

Unit definition
1 U releases 1.0 micromole of Folin positive amino acids measured as tyrosine using urea denatured hemoglobin as the substrate at pH 7.5 and 37°C

Storage and Shelf Life:

Store at 2 - 8°C

Use before the expiry given on the product label.

Revision : 00 / 2021

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