PRODUCT INFORMATION

Catalog No.: **DB0451**

Product Name: **Proteinase K** (Solution)

Size: 3 ml

CAS#: 39450-01-6

Grade: Biotech

Concentration: 20mg/ml

Description: Proteinase K is a nonspecific serine protease. It is not inactivated by metal ions, chelating agents (e.g. EDTA), sulfyhydryl reagents or by trypsin or chymotrypsin inhibitors. It is stable over a wide pH (4-12.5), with optimal activity at pH 6.5-9.5. Proteinase K activity can be stimulated by addition of denaturing agents SDS and urea. The optimum temperature for the enzyme is 65°C; it is twelve times more active at 65°C than at 25°C. However, rapid denaturation of the enzyme will occur at temperatures above 65°C. Thus, protein digestion is usually carried out at 55°C.

Autolysis of the enzyme occurs increasingly at alkaline pH. However, proteinase K is not completely inactivated by autolysis, and some enzyme fragments maintain proteolytic activity even after extensive autolysis

Specifications:

Molecular weight:	28,900
Optimum pH:	7.5-12
Appearance:	aqueous solution
Activity:	>30units/mg

Quality Testing: This Proteinase K is tested for molecular biology applications.

Unit Definition: One Manson unit is described as that amount of enzyme that liberates 1µmole of Folin-positive amino acid within on minute at 37°C using hemoglobin as a substrate.

Storage: Store at -20ºC.

Note: This Product Is For Research Use Only.

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