DATA SHEET

Version: 03
Revision date: 15/03/2023

1. Identification

Product name	**Proteinase K, Lyophilized powder**
	100 mg
Cat Nº	**EZ0012-S**

2. Description

Proteinase K is a serine protease that exhibits very broad cleavage specificity. The Protein with a molecular weight 28.900 kD cleaves peptide bonds adjacent to the carboxylic group of aliphatic and aromatic amino acids. Proteinase K is not inactivated by chelating reagents such as EDTA or detergents such as SDS and is active over a wide range of pH (4.0-12.5).

3. Specifications

Unit Definition: One unit of Proteinase K hydrolyses urea-denaturated haemoglobin producing colour equivalent of 1 μmol tyrosine per 1 min at 37°C and pH 7.5 (Folin & Ciocalteu's method).

Activity ≥30 units/mg

4. Storage specifications

Proteinase K Solution is shipped on blue ice. On arrival store **at -20°C** for optimum stability.

5. Applications

➤ Isolation of genomic DNA from cultured cells and tissues.
➤ Removal of DNases and RNases during nucleic acid isolation.
➤ Determination of enzyme locations.

6. Quality Control

The absence of endo-, exodeoxyribonucleases and ribonucleases has been confirmed in appropriate quality tests.

7. Further information

Product Use Limitations	This product is developed, designed, and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.
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