

DATA SHEET

Version: 03

Revision date: 15/03/2023

1. Identification

Product name**Proteinase K Solution**

20mg/mL (1 mL)

Cat. No:

EZ0015-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 μ mol tyrosine per 1 min at 37°C and pH 7.5 (Folin & Ciocalteu's method).

Activity \geq 800 U/ml

4. Storage specifications

Proteinase K Solution is shipped on blue ice. On arrival store **at -20°C** for optimum stability. Proteinase K Solution is provided in 50mM Tris-HCl (pH 8.0), 3mM CaCl₂ and 50% glycerol.

Shelf life: 24 months when properly stored in its original, unopened container.

5. Applications

- Extraction of DNA and RNA from different starting materials.
- Removal of DNases and RNases during nucleic acid isolation.
- Purification of samples contaminated with different protein.

6. Quality Control

The product passed the quality tests for the presence of endo-, exonucleases and ribonucleases.



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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.

Safety Information When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets (MSDS). These are available online in convenient and compact PDF format at www.canvaxbio.com where you can find, view, and print the MSDS for each CANVAX kit.

