

# Proteinase K

**Cat No. EN-M-001-100**

Size: Lyophilized powder 100mg

**Store at -20°C**

**MOLEQULE-ON<sup>®</sup>**

## Description

Proteinase K is a broad-spectrum serine protease useful for general digestion of proteins. MOLEQULE-ON Proteinase K is highly active and stable in SDS, EDTA, urea and at high temperatures. Its activity is greater than 30 units/mg at 37°C.

## Applications

MOLEQULE-ON Proteinase K can be in the preparation of RNA and high molecular weight DNA. It can be use in the preparation of tissue sections for in situ hybridization. It can also be use in the inactivation of nucleases during nucleic acid extraction and lysis of cells to facilitate isolation of intact genomic DNA or RNA.

## Unit Definition

One unit is defined as the amount of enzyme that will liberate 1.0 $\mu$ mol of tyrosine per minute at 37°C, pH 7.5.

## Preparation

MOLEQULE-ON Proteinase K is soluble in double distilled water in a concentration of 1 mg/ml.

## Storage

Lyophilized Proteinase K should be stored in desiccated form. Reconstitute proteinase K just prior to use. Make aliquot to avoid multiple freeze-thaw cycles, which decrease the stability of the enzyme.

## Caution

Proteinase K can cause irritation of eyes, respiration tract and of skin.