

## Proteinase K

Cat. No. NATZ-112

Lot. No. (See product label)

### Introduction

**Description** Proteinase K is a serine protease, sourced from Parengyodontium album (formerly known as Tritirachium album). It exhibits robust activity across a broad range of conditions, including high temperatures and environments containing Sodium Dodecyl Sulfate (SDS). As a versatile endopeptidase with exceptional specific activity, Proteinase K efficiently degrades proteins, including DNases and RNases, during nucleic acid extraction processes. This ensures the integrity of isolated DNA or RNA remains intact. Produced through expression in *Pichia pastoris*, Proteinase K is rigorously purified to eliminate any traces of exonucleases, endonucleases, and ribonucleases, making it highly suitable for sensitive molecular biology applications.

### Product Information

**Source** Parengyodontium album

**Form** Powder or Solution

**Activity**  $\geq 30$  U/mg lyophilizate  $\geq 40$  U/mg protein  $\geq 800$  U/mL liquid

**Unit Definition** One unit of Proteinase K hydrolyzes urea-denatured hemoglobin producing the color equivalent of 1  $\mu$ mol tyrosine per 1 minute at 37°C and pH 7.5 (Folin & Ciocalteu's method), 1 U = 1 mAnsonU.

### Storage and Shipping Information

**Storage** -20°C