

## Proteinase K from Tritirachium album limber, Recombinant

Cat. No. NATE-1240

Lot. No. (See product label)

### Introduction

**Description** Proteinase K is a stable and highly reactive serine protease. Evidence from crystal and molecular structure studies indicates the enzyme belongs to the subtilisin family with an active-site catalytic triad (Asp39-His69-Ser224). It is stable in a broad range of environments: pH, buffer salts, detergents (SDS), and temperature. In the presence of 0.1-0.5% SDS, proteinase K retains activity and will digest a variety of proteins and nucleases in DNA preparations without compromising the integrity of the isolated DNA.

**Synonyms** Proteinase K; EC 3.4.21.64; Tritirachium alkaline proteinase; Tritirachium album serine proteinase; Tritirachium album proteinase K; endopeptidase K; 39450-01-6; protease K

### Product Information

<b>Species</b>	Tritirachium album limber
<b>Source</b>	Pichia pastoris
<b>Form</b>	Powder
<b>CAS No.</b>	39450-01-6
<b>Purity</b>	> 95%
<b>Activity</b>	> 30U/mg
<b>Thermal stability</b>	25°C~65°C
<b>Optimum temperature</b>	58°C
<b>Buffer</b>	20mM Tris-HCl (pH 7.4~8.0), 1mM CaCl <sub>2</sub> , 50% glycerol

### Storage and Shipping Information

**Storage** 4°C~-20°C