



Proteinase K
Catalogue No. PROK-70- 4825

Origin: *Tritirachium album*

Specifications:

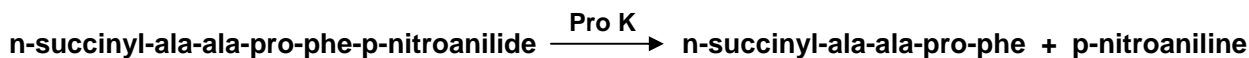
Appearance: Off-white lyophilised powder
 Activity: ≥ 150.0 U/mg powder at 25°C
 Protein concentration: $> 80.0\%$
 DNase: < 0.0005 U/mg powder
 RNase: < 0.0005 U/mg powder

Characteristics:

Lyophilised stability: 1 year desiccated at -20°C
 Solution quality: Clear and essentially free from particulate matter

Assay Principle:

The activity of Proteinase K can be determined from *Tritirachium album* using the substrate: *n-succinyl-ala-ala-pro-phe-p-nitroanilide* in the following reaction:



Cleavage of the substrate releases p-nitroaniline which can be measured spectrophotometrically at 410nm.

Unit Definition:

One unit of activity is defined as the amount of enzyme required to catalyse the production of 1 μmol of p-nitroaniline per minute at 25°C under the standard assay method conditions.

(See Analytical Method for full details)

International
 50 Gibson Drive
 Kings Hill, West Malling
 Kent, ME19 4AF, UK
 Phone: +44 (0) 1732 220022
 Fax: +44 (0) 1732 220024/5

The Americas
 31 New York Avenue
 Framingham, MA
 01701-9322
 Phone: 800 332 1042
 Fax: 800 762 6311