

Product Datasheet

Proteinase K (Tritirachium album limber) (orb420129)

Description

Proteinase K (Tritirachium album)

Conjugation

Unconjugated

Preservatives

None

Form/Appearance

Lyophilized

Storage

Store vial at 2-8°C prior to restoration.
Solutions in 50mM Tris-HCl, pH 8.0,
1mM CaCl₂ stored at 2-8°C are stable
for months.

Note

For research use only

Application notes

Proteinase K is specifically formulated
for molecular cloning, nucleic acid
research and protein/peptide structural
analysis. One unit liberates one µmole
of Folin positive amino acids, measured
as tyrosine, at 37° C at pH 7.5 using
urea denatured hemoglobin as the
substrate. Recommended working
concentration 0.05-0.1mg/mL.

Purity

A lyophilized powder.
Chromatographically purified to remove
DNase and RNase activity. Stable over
a wide pH range : 4.0-12.5, optimal pH
7.5-8.0, using denatured hemoglobin as
substrate. Although calcium ions do not
affect the enzyme activity, they do
protect Proteinase K against autolysis
and increase thermal stability when
present at a concentration of 1-
5µmoles. It retains its activity in the
presence of SDS or urea (0.5-1% SDS
and 1-4M urea). Raising the
temperature of the reaction from 37°C
to 50-60°C can increase the activity
several fold. Proteinase K is inactivated
by diisopropyl fluorophosphate or
phenyl methane sulphonyl fluoride.
Chelating agents such as citrate and
EDTA have no effect on the enzyme
activity. Proteinase K can also be
inactivated by heating above 65°C for
15-20 min or by extraction with
phenyl/chloroform.

Hazard
Information

Non-Toxic

Expiry Date

6 months from date of receipt

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