

Technical Datasheet

Proteinase K

Cat No:	CA-1091-01
Pack Size:	100 mg
Lot No:	_____
Pack size:	100 mg white lyophilised powder.
Isolated from	<i>Tritirachium album</i>
Specific Activity:	c. 20 U/mg lyophilisate
CAS Number:	39450-01-6
M.W.:	29.6 kDa
DNase Activity:	<30 Kunitz per mg solid.
RNase Activity:	<0.003 Kunitz per mg solid.
Storage:	Store at –20°C. Warm to room temperature before opening.

Unit Definition:

One unit is the amount of enzyme which liberates in 1 minute Folin-positive amino acids and peptides equivalent to 1 μ mole tyrosine at pH 7.5 at 37°C using haemoglobin as a substrate.

Applications:

Proteinase K is a non-specific serine protease and is particularly effective on native proteins. Our Proteinase K is recommended for the isolations of native high molecular weight DNA and mRNA from microorganisms and mammalian cells.

It has also been used for the extraction of genomic DNA from mouse tail biopsies and PCR genotyping.

Immediate use:

Lyophilised Proteinase K can be dissolved in the appropriate amount of dH₂O and added directly to reaction mix.

Glycerol protocol:

To make up Proteinase K as a glycerol stock, dissolve 100 mg in 10 ml of a pH 7.5 solution containing 40% (v/v) glycerol 10mM Tris-HCl and 1mM calcium acetate.

RESEARCH USE ONLY

16th November 2015