

PRODUCT DESCRIPTION

Cat. no.: RP107B

Version 02.2018

Product	Proteinase K – Solution, Molecular Biology Grade
Cat. no.	RP107B
Appearance	Clear, colorless liquid
Product characteristics	Proteinase K from <i>Parengyodontium album</i> (<i>Tritirachium album</i>) is a subtilisin-related serine protease. It is a broad spectrum endopeptidase with very high specific activity. It is widely used for digestion of proteins, including DNases and RNases, during nucleic acid preparations without compromising integrity of isolated DNA or RNA. Proteinase K is active under wide range of reaction conditions, including elevated temperatures and presence of SDS. This recombinant enzyme is expressed in <i>Pichia pastoris</i> , and undergoes extensive purification to yield the highest quality product.
Proteinase K concentration	20 mg/ml
Storage buffer formulation	10 mM Tris-HCl, pH 7.8 1 mM (CH ₃ COO) ₂ Ca 50% glycerol
Specific activity	≥ 800 U/ml One unit of Proteinase K hydrolyzes urea-denaturated hemoglobin producing color equivalent of 1 μmol tyrosine per 1 min at 37°C and pH 7.5 (Folin & Ciocalteu's method), 1 U = 1 mAnsonU.
DNA content	≤ 0.25 μg/U by qPCR
Bioburden	≤ 1 CFU/ml
Exonucleases	1 μg of HindIII-digested λ DNA is incubated with 50 μg Proteinase K for 16 h at 37°C. No DNA degradation is detectable.
Endonucleases	1 μg of pUC19 DNA is incubated with 40 μg Proteinase K for 16 h at 37°C. No DNA degradation is detectable.
Ribonucleases	2 μg of rRNA from <i>E. coli</i> is incubated with 20 μg Proteinase K for 4 h at 37°C. No RNA degradation is detectable.
Stability	Proteinase K Solution maintains full activity for at least 24 months from the release date.
Storage	-20°C or +4°C
Shipping conditions	Ambient temperature

LIMITATION OF USE

This product has been developed by Blirt S.A for research purposes only and it is not suitable for any human, or animal, therapeutic, or diagnostic use.

WARRANTY

Blirt S.A. guarantees that the product, until its expiration date, conforms to all specifications described in Certificate of Analysis, provided the product is properly stored in its original container. If the product fails to meet these specifications prior to the expiration date, Blirt S.A. will replace it, free of charge. Blirt S.A. provides no other, additional warranties, including any other direct or indirect guarantees, regarding suitability, activity, the purpose of use, merchantability, or any other factors in relation its product.

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