

CERTIFICATE OF ANALYSIS

Product	Proteinase K – Lyophilized powder, NGS Grade
Cat. no.	RP100N, RP101N, RP102N, RP103N
Batch no.	876273
Country of origin	Poland, manufactured in compliance with our ISO 9001 certified quality management system.
Long-term storage	-20°C
Description	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. An extra purification step results in significantly increased solubility (2.5 fold), increased specific activity, and decreased DNA content, compared to our Molecular Biology Grade product.

QUALITY CONTROL

Parameter	Result
As per Product Description PD_Proteinase K_NGS_RP100N-RP103N v1.2018	
Appearance	white lyophilized powder - passed
Solubility in water	≥ 50 mg/ml – passed
Activity	≥ 35 U/mg lyophilizate - passed
Specific activity	≥ 45 U/mg protein - passed
DNA content	≤ 0.1 pg/mg – passed
Exonucleases	not detectable – passed
Endonucleases	not detectable – passed
Ribonucleases	not detectable – passed

Expiration: 2 years from the release date, when properly stored in unopened container.

Released by: Marta Sadowska, Quality Control Specialist

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Expiration date: 03.2021

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.

LIMITATION OF LIABILITY

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