



Creative Enzymes

Diagnostic Enzymes

Proteinase K (Lyophilized Powder for NGS)

Product Information

Cat#	MDE-004
Specification	100 mg, 1 g, 10 g, 100 g
Description	Proteinase K is a serine protease with broad substrate specificity, preferentially cleaving near hydrophobic, sulfur-containing, and aromatic amino acids. It contains the catalytic triad Asp39-His69-Ser224 and two Ca ²⁺ -binding sites that enhance stability. This mNGS-grade version features reduced nucleic acid residues, ensuring higher accuracy in metagenomic sequencing applications.
Applications	Used for sample processing prior to high-throughput sequencing (NGS) library construction to ensure nucleic acid purity.
Activity	≥ 40 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to hydrolyze milk casein to produce 1 μmol of L-tyrosine per minute under specified conditions.
Storage	Shelf life of 36 months when stored as a dry powder at ≤8 °C.