

# A Guide to Proteinase K: Find Your Perfect Match

This guide breaks down four different recombinant Proteinase K products to help you match the right format and quality grade to your specific sample preparation workflow.

## Proteinase K, rec., lyophilizate

**Flexible powder form for sample preparation buffers**

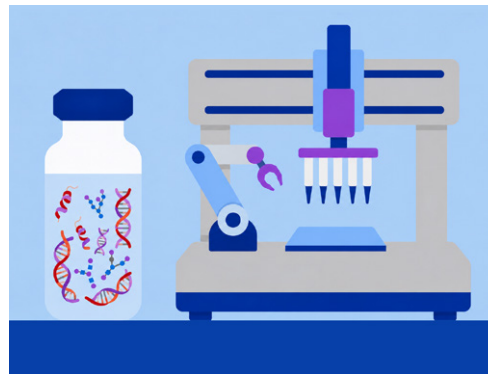
Reconstitution as needed, offering maximum formulation flexibility for DNA/RNA isolation



## Proteinase K, rec., solution

**Ready-to-use solution for automated workflows**

Easily integrates into liquid handling systems for streamlined DNA/RNA isolation



## Proteinase K, rec., lyo-ready

**Glycerol-free & high conc. for lyophilization**

Lyo-ready solution optimized for freeze drying and for developing lyophilized mixes



## Proteinase K, rec., GMP Grade, solution

**GMP Grade solution for biopharma applications**

Produced under GMP guidelines, suitable for mRNA therapeutics and biopharma applications



	<b>Proteinase K, rec., lyophilizate</b>	<b>Proteinase K, rec., solution</b>	<b>Proteinase K, rec., lyo-ready</b>	<b>Proteinase K, rec., GMP Grade, solution</b>
<b>Key application</b>	Powder for flexible formulation of DNA/RNA isolation buffers	Ready-to-use integration into liquid workflow for DNA/RNA isolation buffers	Developing lyophilized molecular diagnostic mixes	For manufacturing of mRNA therapeutics and biopharma applications
<b>Catalog number</b>	05963117103	03654672103	10575506103	09753826103
<b>Pack size</b>	5 g	850 mL	custom fill	please inquire
<b>Form</b>	Lyophilizate (powder)	Solution (liquid)	Solution (high conc., glycerol-free)	Solution (liquid)
<b>Source</b>	<i>Pichia pastoris</i> (recombinant)	<i>Pichia pastoris</i> (recombinant)	<i>Pichia pastoris</i> (recombinant)	<i>Pichia pastoris</i> (recombinant)
<b>Concentration</b>	n/a (reconstitute as needed)	14 - 22 mg/mL	40 - 48 mg/mL	14 - 22 mg/mL
<b>Activity</b>	≥ 24 U/mg lyophilizate (hemoglobin)	≥ 600 U/mL (hemoglobin)	≥ 1460 U/mL (hemoglobin)	≥ 600 U/mL (hemoglobin)
<b>Specific activity</b>	≥ 30 U/mg protein (hemoglobin)	≥ 30 U/mg protein (hemoglobin)	≥ 30 U/mg protein (hemoglobin)	≥ 30 U/mg protein (hemoglobin)
<b>Bioburden</b>	≤ 125 CFU/g	≤ 5 CFU/mL	≤ 5 CFU/mL	≤ 5 CFU/mL
<b>DNA content</b>	≤ 10 pg/mg protein	≤ 10 pg/mg protein	Host Cell DNA ≤ 1 pg/mg protein Human gDNA ≤ 4 ng/mg protein	≤ 10 pg/mg protein
<b>Nuclease testing</b>	Free of RNases, DNases, and nicking activity	Free of RNases, DNases, and nicking activity	Free of RNases, DNases, and nicking activity	Free of RNases, DNases, and nicking activity
<b>Extended impurity testing</b>	n/a	n/a	n/a	Endotoxins: ≤ 10 EU/mL Heavy metals: ≤ 10 ppm
<b>Storage &amp; stability</b>	Stable for 24 months at +2°C to +8°C	Stable for 18 months at +2°C to +8°C	Stable for 18 months at -15°C to -25°C	Stable for 18 months at +2 to +8°C

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