

### Certificate of Analysis

<b>Product Name:</b>	Proteinase K				
<b>Cat No.:</b>	RP02503	<b>Lot No.:</b>	9620030736	<b>Exp:</b>	2022.08
<b>Conc.:</b>				<b>Storage:</b>	2-8°C
<b>Product Description</b> Proteinase K (EC3.21.64) is an extracellular serine endoprotease produced by <i>Tritirachium album Limber</i> . This product has a wide range of applicability and can maintain high reactivity under the conditions of 20°C-60°C and pH=7.6-12.0. The reactivity of proteinase K will increase when the reaction solution contain 2% SDS and 4 M urea. Calcium ions are important for the thermal stability of proteinase K, but have no effect on the catalytic activity. Therefore, proteinase K can maintain activity in buffers containing chelating agents such as EDTA.					

Assay Name/Specification (Minimum release criteria)	Data	Result
<b>Specific Activity</b> One unit of activity is defined as the amount of proteinase K required to release 1 μM tyrosine per minute using casein as a substrate and detection by the Folin method at 37°C (pH 7.5)	≥30 U/mg	Pass
<b>Non-specific Endonuclease</b> Mix the sample to be tested with super-coiled pUC19 DNA and reaction for 2h, then detected by agarose gel electrophoresis.	No degradation	Pass
<b>DNase Activity</b> Mix the sample to be tested with λDNA and reaction for 6h, and then detected by agarose gel electrophoresis.	No degradation	Pass
<b>RNase Activity</b> Mix the sample to be tested with RNA and reaction for 6h, and then detected by PAGE electrophoresis.	No degradation	Pass
<b>Residual Host DNA/RNA</b> Use the sample to be tested as the template, detected the residual <i>Pichia pastoris</i> DNA by probed qPCR	No amplification signal	Pass
<b>Bio-burden</b> Dissolve the sample to be tested with sterile ddH <sub>2</sub> O and spread it on the LB plate, checked the microbial contamination. The bio-burden was required to be less than 100CFU/g protein	Not detected	Pass

**结论 (Conclusion):**  
 符合出厂标准 (In compliance).



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