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15679E_1908_2

Product No. 15679

Proteinase K (Recombinant) Solution

Faaturaa	
This product is a rea	dy-to-use solution. It is tested for the absence of DNase and RNase.
About Proteinase	
	- Proteinase K is a stable and highly active serine protease.
(3.13.33.313.33)	 Proteinase K is active in the presence of denaturing reagents such as urea (1 - 4 mol/L) or 0.5 % SDS. The optimal pH range is between pH 7.5 and pH 10.5 (using denatured hemoglobin as a substrate). It is stable from pH 4.0 to pH 12.5. Proteinase K is inactivated by DFP (Diisopropyl fluorophosphate) and PMSF (Phenylmethylsulfonyl fluoride). However, it is not inactivated by EDTA.
(Applications)	 Proteinase K is useful for inactivation of nucleases during extraction of DNA or RNA, and treatment of paraffin embedded tissue sections to unmask antigens in immunohistochemistry detections. Proteinase K can digest various proteins rapidly.
Source	
This proteinase K is a	recombinant protein from Pichia pastoris cells with a cloned gene from Tritirachium album.
Composition	
This solution contain in 10 mmol/L Tris-HC	s Proteinase K (activity >600 U/mL, approx.18 mg/mL), glycerol and calcium acetate buffer (pH 7.5),
·	e unit of enzyme digests urea-denatured bovine hemoglobin to amino acids and peptides corresponding to 1 minute at 37 °C (color by folin reagent)).
Example of use	
Extraction of DNA	
	ells or the tissue in lysis buffer. of lysis buffer: 10 mmol/l Tris-HCl buffer (pH 8.0) 0.1 mol/l EDTA 0.5 % (w/v) SDS Proteinase K (Recombinant) Solution: Add 0.5% (v/v) of the total volume. Adjust the concentration as necessary.
	- 50 °C for 3 hours to overnight. A with phenol/chroloform followed by ethanol precipitation.
	on paraffin-embedded tissue sections
1. Deparaffinize of 2. Treat with Prote Incubate the se (The optimal re essential.) 3. Wash the secti	and hydrate tissue sections according to the standard protocols. einase K (Recombinant) Solution. ections with properly diluted Proteinase K (Recombinant) Solution for 6 to 15 minutes at room temperature. eaction concentration, time and temperature depend on the antigen. Optimization of these conditions is on with TBS containing 0.1 % Tween® (or PBS containing 0.1 % Tween®).
4. Perform Immur	nohistochemistry detection.
- Wear disposable g	loves, mask, and goggles to protect contamination of nucleases. performing preliminary experiments to optimize the reaction concentration, temperature and time when use mbinant) Solution.
Storage	
Refrigerator	
Expiration Expiration date is sto	ated on the product label.
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Packing

2 mL (Product No.15679-06) 10 mL (Product No.15679-64)