

Proteinase K

- Description:** Proteinase K is a non-specific serine protease and is particularly effective on native proteins.
- Ordering Information:**
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| AB-0504 | Proteinase K | 100mg |
| AB-0504/b | Proteinase K | 1,000mg |
- Enzyme Source:** Isolated from *Tritirachium album*
- Unit Definition:** One unit (Kunitz unit) is the amount of enzyme that liberates folin-positive amino acids and peptides equivalent to 1 μ mol tyrosine at pH 7.5 at 37°C, using haemoglobin as a substrate.
- Specific Activity:** ca. 20 units/mg lyophilisate.
- DNase Activity:** Less than 30 Kunitz units per mg solid.
- RNase Activity:** Less than 0.003 Kunitz units per mg solid.
- Storage Conditions:** Stable for up to 6 months at -20°C. Keep dry. Warm to room temperature before opening. Shipped on ice.
- Applications:**
1. Wide range of DNase and RNase inactivation (in the presence of 0.5–1.0% (w/v) SDS).
 2. Isolation of native high molecular weight DNA and mRNA from micro-organisms and mammalian cells through the use of Proteinase K during cell digestion.
 3. Cell surface protein and glycoprotein modifications.
 4. Protein structure studies (due to the specificity of the enzyme).
- References:**
1. Ebeling W *et al.* (1974) *Eur J Biochem* 47, 91–97
 2. Hansen JN (1974) *Preparative Biochemistry* 4, 473–488
 3. Brdicka D and Krebs W (1972) *Biochim Biophys Acta* 297, 203–212

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