

Protease Inhibitor Cocktail Tablets

EDTA-Free

Catalogue number: PIC999

Protease Inhibitor Cocktail Tablets EDTA-Free are designed to safeguard isolated proteins by providing an inhibition of serine proteases, cysteine proteases and aminopeptidases during extractions from animal and plant tissues or cells, yeast and bacteria. As this formulation is EDTA-free, the stability and the function of metal-dependent proteins remain unaffected.

Protease Inhibitor Cocktail Tablets contain both irreversible and reversible protease inhibitors. Aspartic and metallo proteases are not inhibited except for aminopeptidases. The affinity purification of Poly-His tagged fusion proteins via IMAC (immobilized metal ion affinity chromatography) is also facilitated, without necessitating dialysis.

The tablets contain the following Protease Inhibitors: AEBSF, Aprotinin, E-64 and Leupeptin Hemisulfate. Each tablet is sufficient for the inhibition of the proteolytic activity in 50 ml extraction solution.

Storage: Store tablets dry at -20° C. The stock solution can be stored at 2°C to 8°C and is stable for 1-2 weeks.

Preparation

Working Solution

Dissolve Protease Inhibitor Cocktail Tablets directly in the extraction medium. Depending on the proteolytic activity, one tablet should be sufficient for the inhibition of the existing proteolytic activity in 50ml. If very high proteolytic activity is present, one tablet should be used for 25ml extraction buffer. If it is necessary to inhibit proteolytic activity in a smaller volume, it is recommended to use a stock solution.

Stock Solution (50 x conc.)

Dissolve one Protease Inhibitor Cocktail Tablet in 1ml redistilled H₂O.