CREATIVE BIOMART®
Assay Kit

Acidic Proteinase (ACP) Activity Assay Kit

Product Information

Product Overview

Significance: Acid protease (ACP) is a protein-hydrolyzing enzyme active under acidic conditions. It is widely used in alcohol fermentation, brewing, leather processing, fruit wine clarification, soy sauce production, and animal feed applications.
Principle: Under acidic conditions, ACP catalyzes the hydrolysis of casein, releasing tyrosine. Under alkaline conditions, tyrosine reduces phosphomolybdic acid complexes to produce tungsten blue, which exhibits a characteristic absorbance peak at 680 nm. ACP activity is calculated based on the increase in absorbance.

Size

50t/24s

Storage

Store at 2–8 °C. Shelf life: 6 months.

Detection method Spectrophotometer

Materials Required but Not Supplied

Visible spectrophotometer, water bath, magnetic stirrer, adjustable pipettes, 1 mL glass cuvettes, 1.5 mL microcentrifuge tubes, distilled water.

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