

## 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.