CREATIVE BIOMART®
Assay Kit

Phytase Activity Assay Kit

Product Information

Product Overview

Significance: Phytase is a class of phosphomonoesterases that hydrolyze phytic acid and its salts into inositol and inorganic phosphate. It enhances phosphorus bioavailability in food and feed, reduces phosphorus excretion, mitigates environmental pollution, and improves nutrient absorption. Principle: Under defined temperature and pH conditions, phytase hydrolyzes sodium phytate to release inorganic phosphate. In acidic conditions, inorganic phosphate reacts with ammonium molybdate to form a blue complex with a characteristic absorbance at 700 nm. Phytase activity is calculated based on absorbance changes.

Size

100t/48s

Storage

Store at -20 °C. Shelf life: 6 months.

Detection method Spectrophotometer/Microplate Reader

Materials Required but Not Supplied

Analytical balance, refrigerated centrifuge, visible spectrophotometer or microplate reader, quartz cuvettes or 96-well plates, thermostatic water bath, ultrasonic dissolver, orbital shaker.

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