CREATIVE BIOMART®
Assay Kit

Soil Neutral Protease Activity Assay Kit

Product Information

Product Overview

Significance: Soil proteases participate in the transformation of amino acids, proteins, and other organic nitrogen-containing compounds in soil. Their hydrolysis products serve as nitrogen sources for higher plants. Soil neutral protease (S-NPT) catalyzes protein hydrolysis under neutral conditions and is closely related to soil organic matter, nitrogen content, and other soil properties.
Principle: Under neutral conditions, S-NPT hydrolyzes casein to produce tyrosine. Under alkaline conditions, tyrosine reduces phosphomolybdic acid to form tungsten blue, which exhibits a characteristic absorbance peak at 680 nm.

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, and distilled water.

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