CREATIVE BIOMART®
Assay Kit

Soil Phosphorus Content Assay Kit

Product Information

Product Overview

Significance: Soil total phosphorus consists of organic and inorganic phosphorus, with inorganic phosphorus being directly available to plants. Organic phosphorus can be mineralized into inorganic forms. Simultaneous determination of total phosphorus, organic phosphorus, and inorganic phosphorus provides a comprehensive assessment of soil phosphorus nutritional status. Principle: Phosphorus is determined using the molybdenum blue method. Inorganic phosphorus is measured directly from extracted soil samples. A separate soil aliquot is subjected to high-temperature ignition to convert organic phosphorus into inorganic phosphorus, yielding total phosphorus. Organic phosphorus content is calculated as the difference between total phosphorus and inorganic phosphorus.

Size

50t/24s

Storage

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

Detection method Spectrophotometer

Materials Required but Not Supplied

Visible spectrophotometer, benchtop centrifuge, adjustable water bath, analytical balance, adjustable pipettes, high-temperature furnace (550 °C), 1 mL glass cuvettes, distilled water, 100-mesh sieve or finer.

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