CREATIVE BIOMART®
Assay Kit

Soil Nitrate Reductase (S-NR)Activity Assay Kit

Product Information

Product Overview

Soil nitrate reductase (S-NR) catalyzes the reduction of nitrate to nitrite and is a key enzyme in soil nitrate nitrogen reduction. Measurement of S-NR activity is important for rational fertilization strategies and reducing nitrogen loss.
S-NR catalyzes the reaction:
NO₃⁻ + NADH + H⁺ → NO₂⁻ + NAD⁺ + H₂O.
The produced nitrite reacts with p-aminobenzenesulfonic acid and a-naphthylamine under acidic conditions to form a red azo compound with maximum absorbance at 540 nm, which is quantified spectrophotometrically.

Size

50t/24s

Storage

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

Detection method Spectrophotometer

Materials Required but Not Supplied

Visible spectrophotometer, water bath, benchtop centrifuge, adjustable pipettes, 1 mL glass cuvettes, mortar, ice, distilled water.

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