CREATIVE BIOMART®
Assay Kit

Nitrite Reductase (NiR) Assay Kit

Product Information

Product Overview

Significance of Measurement: Nitrite reductase (NiR) is widely distributed in microorganisms and plants and is a key enzyme in the nitrogen cycle. It reduces nitrite to NO or NH₃, thereby decreasing nitrite accumulation and associated toxicity.
Principle of Measurement: NiR reduces NO₂⁻ to NO, resulting in a decrease in NO₂⁻ available for diazotization reactions that produce a purple-red compound. Changes in absorbance at 540 nm reflect NiR activity.

Size

100t/48s

Storage

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

Synonyms

NiR Kit

Detection method Spectrophotometer/Microplate Reader

Materials Required but Not Supplied

Analytical balance, mortar, visible spectrophotometer or microplate reader, quartz cuvettes or 96-well plates, water bath, and refrigerated centrifuge.

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