CREATIVE BIOMART®
Assay Kit

Octopine dehydrogenase (ODH) activity assay kit

Product Information

Product Overview

There are four main anaerobic metabolic pathways in marine invertebrates, among which the glucose-opine pathway plays an important role in the early stage of anaerobic metabolism. The unique Opine dehydrogenase (OpDHs) in invertebrates ensures the smooth progress of this process. Octopine dehydrogenase (ODH; EC 1.5.1.11) is one of the Opine dehydrogenase (OpDHs) series of enzymes. Octopine dehydrogenase (ODH) catalyzes the reaction of pyruvate and the specific substrate arginine to generate the corresponding imino acids, and oxidizes NADH at the same time. The activity of ODH enzyme can be obtained by detecting the decreasing rate of NADH at the characteristic absorption wavelength of 340nm.

Size

96 Samples

Storage

-20□

Shipping

Ice pack

Kit Components

1. Reagent Extraction Liquid: Liquid, 100mL × 1 bottle, store at 4°C.
2. Reagent One: Powder, mg × 2 vials, store at -20°C. Before use, shake or centrifuge to bring the powder to the bottom, then add 0.55mL of distilled water to each vial to dissolve and reserve. Any unused reagent should be portioned and stored at -20°C, avoid repeated freezing and thawing, and use within one week.
3. Reagent Two: Liquid, μL × 1 vial, store at 4°C. Before use, shake or centrifuge to bring the reagent to the bottom, then add 1.1mL of distilled water to dissolve and reserve.
4. Reagent Three: Liquid, 16mL × 1 bottle, store at 4°C.

Materials Required but Not Supplied

Microplate reader, 96-well plate, benchtop centrifuge, adjustable pipette, mortar, ice, and distilled

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