NADP-Malate Dehydrogenase Assay Kit I

Cat. No. KITZ-047 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MDH(EC 1.1.1.37)is widely exist in animal, plant, microbe and cells culture. MDH in mitochondria is one of the key enzymes of TCA cycle, which catalyzes the formation of oxaloacetic acid from malic acid. In contrast, MDH in serum catalyzes the formation of malic acid from oxaloacetic acid. Oxaloacetic acid is an important intermediate that connects several important metabolic pathways. MDH plays an important role in many physiological activities of cells, including mitochondrial energy metabolism, malic acid-aspartic acid shuttle system, reactive oxygen species metabolism and disease resistance. According to the different coenzyme specificity, MDH is divided into NAD- dependent MDH and NADP- dependent MDH. NADP-MDH is mainly present in eukaryotic cells. NADP-MDH catalyzes NADPH to reduce oxaloacetic acid into malic acid, resulting in a decrease in absorption at 340 nm.
Size	50T/48S
Storage	Store at -20 °C
Shipping	Ice pack

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Kit Components	Extract solution: Liquid 50 mL×1, store at 4°C; Reagent I: Liquid 40 mL×1, store at 4°C; Reagent II: Powder×2, store at -20°C. Add 250 μL distilled water when the solution will be used. The rest of reagent store at -20°C; Reagent III: Powder×2, store at -20°C. Add 300 μL distilled water when the solution will be used. The rest of reagent store at -20°C;
Materials Required but Not Supplied	Ultraviolet spectrophotometer, desk centrifuge, water-bath, adjustablepipette, 1 mL quartz cuvette and distilled water.

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