NADP-Malate Dehydrogenase Assay Kit II

Cat. No. KITZ-048 **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	100T/96S
Storage	Store at -20 °C
Shipping	Ice pack

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Kit Components	Extract solution: Liquid 100 mL×1, store at 4°C; Reagent I: Liquid 20 mL×1, store at 4°C; Reagent II: Powder×1, store at -20°C. Add 500 μL distilled water when the solution will be used. The rest of reagent store at -20°C; Reagent III: Powder×1, store at -20°C. Add 600 μL distilled water when the solution will be used. The rest of reagent store at -20°C;
Materials Required but Not Supplied	Ultraviolet spectrophotometer/microplate reader, desk centrifuge, water-bath, adjustablepipette, micro quartz cuvette/96-well flat-bottomUV plate and distilled water.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA