Phosphoenolpyruvate Carboxylase(PEPC)assay kit

Cat. No. KITZ-073 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Phosphoenolpyruvate carboxylase (PEPC, EC 4.1.1.31) is a key enzyme in photosynthetic carbon metabolism of C4 plants and CAM plants, and plays a role in fixing CO2 in the environment. It catalyzes the irreversible reaction of PEP and CO2 carboxylation to form oxaloacetate. This enzyme plays an important role in photosynthetic carbon assimilation, respiration and material metabolism. PEPC catalyzes phosphoenolpyruvate (PEP) and CO2 to produce oxaloacetate, and malate dehydrogenase further catalyzes oxaloacetate and NADH to produce malic acid and NAD+. The activity of PEPC enzyme can be calculated by measuring the reduction rate of NADH at 340nm.
Size	96 Samples
Storage	-20°C
Shipping	Ice pack
Kit Components	Extraction Liquid: Liquid, 100mL × 1 bottle, store at 4°C. Reagent One: Powder, mg × 2 vial, store at -20°C. Shake or centrifuge before use to bring the reagent to the bottom, then add 1.1mL of distilled water to dissolve. Any unused reagent should be aliquoted and stored at -20°C. Do not freeze and thaw repeatedly, and use within three days. Reagent Two: Liquid, 15mL × 1 bottle, store at 4°C. Reagent Three: Powder, mg × 1 vial, store at -20°C. Shake or centrifuge before use to bring the reagent to the bottom, then add 2.1mL of distilled water to dissolve for

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	later use.
Materials Required but Not Supplied	Microplate reader, 96-well plate, benchtop centrifuge, adjustable pipette, mortar, ice, and distilled water.

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