Isocitrate Fluorometric Assay Kit

Cat. No. Kit-0484 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Isocitrate Assay Kit (Fluorometric) is used for quantitative determination of Isocitrate (Isocitric Acid) using fluorometric methods.
Description	ISOCITRATE (ISOCITRIC ACID) is a substrate in the citric acid (TCA) cycle. Isocitrate is formed by the isomerization of citrate catalyzed by the enzyme aconitase. Isocitrate is oxidized by isocitrate dehydrogenase producing α-ketoglutarate and generating NADPH. Isocitrate is commonly found in many fruits and vegetables and their processed products. Industrially, isocitrate is used as a marker to identify the quality and purity of fruit juices.This isocitrate assay measures the NADPH generated from the oxidation of isocitrate. The NADPH reduces a probe into a highly fluorescent product. The fluorescence intensity of this product, measured at λ ex/em = 530/585 nm, is proportional to the isocitrate concentration in the sample.
Applications	Isocitrate determination in food, beverage, biological samples (e.g. cell lysate, tissue homogenate, serum, etc.)
Usage	For research use only (RUO)
Storage	Store all components at -20°C upon receiving.
Kit Components	Assay Buffer 10 mLNADP 500 µStandard 1 mLEnzyme A 120 µEnzyme B 120 µProbe 750 µ
Detection method	Fluorometric

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

Compatible Sample Types	Beverage, Food, Cell lysate, Serum, Tissue homogenate
Features & Benefits	Fast and sensitive. Linear detection range (20 µ sample): 0.6 to 500 µM for 10 min reaction.Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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