

Isocitrate Assay Kit

Cat. No. Kit-2465 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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. The 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 $\lambda_{ex/em} = 530/585$ nm, is proportional to the isocitrate concentration in the sample.
Storage	-20°C
Shipping	On Ice
Size	100 tests
Detection method	FL530/585 nm
Compatible Sample Types	Food, beverage, biological samples (e.g. cell lysate, tissue homogenate, serum, etc.)
Features & Benefits	Fast and sensitive. Linear detection range (20 μL 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

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of samples per day.

Assay time	10 min
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Sensitivity	0.6 μ M
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