

Citrate Assay Kit

Cat. No. Kit-0228 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Citrate Assay Kit is a quantitative colorimetric/fluorimetric determination of citrate at OD570, FL530/585 nm.
Description	CITRATE is an intermediate in the citric acid cycle and is involved in fatty acid synthesis. Citrate Assay Kit provides a simple, and automation-ready procedure for measuring citrate concentration. Citrate is converted into pyruvate which is then oxidized with the conversion of the dye into a colored and fluorescent form. The color intensity at 570 nm or fluorescence intensity at $\lambda_{ex/em} = 530/585$ nm is directly proportional to the citrate concentration in the sample.
Applications	Citrate determination in biological samples (e.g. plasma, serum, urine, tissue and culture media.)
Usage	For research use only (RUO)
Storage	Store all kit components at -20°C. Shelf life of six months after receipt.
Kit Components	Developer 10 mL Dye Reagent 120 μ Citrate Standard 500 μ CL Enzyme Dried ODC Enzyme 120 μ
Detection method	Colorimetric, Fluorimetric
Compatible Sample Types	Culture Medium, Plasma, Serum, Tissue, Urine

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Features & Benefits

Fast and sensitive. Linear detection range: 4 to 400 μ M citrate for colorimetric assays and 0.5 to 40 μ M for fluorimetric assays. 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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