Choline Assay Kit

Cat. No. Kit-0224 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Choline Assay Kit is a quantitative colorimetric/fluorometric choline determination.
Description	CHOLINE and its metabolites play important roles in membrane structure integrity, cellular signaling and cholinergic neurotransmission. Aberrant regulation in choline metabolism has been associated with mental illness such as anxiety. Choline Assay Kit provides a simple, direct and high-throughput assay for measuring choline in biological samples. In this assay, free choline is oxidized by choline oxidase to betaine and H2O2 which reacts with a specific dye to form a pink colored product. The color intensity at 570nm or fluorescence intensity (530/585 nm) is directly proportional to the choline concentration in the sample.
Applications	Assays: choline in biological samples such as serum, plasma, urine, saliva, milk, tissue, and cell culture.Drug Discovery/Pharmacology: effects of drugs on choline metabolism.
Usage	For research use only (RUO)
Storage	Store all components at -20°C. Shelf life of six months after receipt.
Kit Components	Assay Buffer 10 mLEnzyme Mix (Dried) 1 vialDye Reagent 120 µStandard: 2 mM Choline 400 µ
Detection method	Colorimetric, Fluorometric
Compatible Sample	Cell Culture, Milk, Plasma, Saliva, Serum, Tissue, Urine

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Types	
Features & Benefits	Use 20 µl samples. Linear detection range: colorimetric assay 1 to 100 µM, fluorimetric assay 0.2 to 10 µM choline

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