Sulfate Assay Kit

Cat. No. Kit-0809 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Sulfate Assay Kit is a quantitative turbidimetric sulfate determination at 600 nm.
Description	INORGANIC SULFATE is one of the most abundant anions in mammalian plasma. Sulfate plays important physiological roles in activating and detoxifying xenobiotics, steroids, neurotransmitters, and bile acids. Sulfate is needed for the biosynthesis of glycosaminoglycans, cerebroside sulfate, and heparin sulfate. Undersulfation of cartilage proteoglycans has been associated with human inherited osteochon-drodysplasia disorders. In mammals, sulfate homeostasis is regulated by the kidney. The majority of filtered sulfate is absorbed in the proximal tubules, and only 5-20% of the filtered load is excreted into the urine.Simple, direct and automation-ready procedures for quantitative determination of inorganic sulfate find wide applications in research and drug discovery. Sulfate assay kit is designed to measure sulfate concentration in biological fluids such as serum and urine. The improved method utilizes the quantitative formation of insoluble barium sulfate in polyethylene glycol. The turbidity measured between 540 and 610nm is proportional to sulfate level in the sample.
Applications	Direct Assays: inorganic sulfate in serum and urine.Pharmacology: effects of drugs on sulfate metabolism.
Usage	For research use only (RUO)
Storage	The kit is stored at room temperature.Shelf life of three months after receipt.

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Kit Components	Reagent A 25 mLReagent B 2.4 g powderTCA Reagent 25 mLSulfate Standard 1 mL 60 mM
Detection method	Colorimetric
Compatible Sample Types	Plasma, Serum, Urine
Features & Benefits	Sensitive and accurate. Detection range 0.02 mM (0.19 mg/dL) to 2 mM (19.2 mg/dL) sulfate in 96-well plate assay.Simple and high-throughput. The procedure involves addition of a single working reagent and incubation for 5 min.

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