Iron Assay Kit

Cat. No. Kit-0480 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Iron Assay Kit is a quantitative colorimetric iron determination at 590 nm.
Description	Iron level in blood is a reliable diagnostic indicator of various disease states. Increased levels of iron concentration in blood are associated with blood loss, increased destruction of red blood cells (e.g. hemorrhage) or decreased blood cell survival, acute hepatitis, certain sideroachrestic anemias, ingestion of iron-rich diets, defects in iron storage (e.g. pernicious anemia). Decreased levels of blood iron may result from insufficient iron ingestion from diets, chronic blood loss pathologies, or increased demand on iron storage as during normal pregnancy.
Applications	Direct Assays: iron in biological samples (e.g. serum).Drug Discovery/Pharmacology: effects of drugs on iron metabolism.Environmental Monitoring: iron in soil extracts, mineralized samples.
Usage	For research use only (RUO)
Storage	Store Reagent A at room temperature and other reagents at 4°C. Shelf life: 12 months after receipt.
Kit Components	Reagent A 50 mLReagent B 4 mLReagent C 4 mLIron Standard: 10 mg/dL Fe2+ 1 mL
Detection method	Colorimetric
Compatible Sample	Biological Sample, Serum

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Types	
Features & Benefits	Sensitive and accurate: Linear detection range 27 µg/dL (4.8 µM) to 1,000 µg/dL (179 µM) iron in 96-well plate assay.Simple and high-throughput: The procedure involves addition of a single working reagent and incubation for 40 min. Can be readily automated as a high-throughput assay for thousands of samples per day.Improved reagent stability and versatility: The optimized formulation has greatly enhanced reagent and signal stability. Cuvet or 96-well plate assay.Low interference in biological samples. No pretreatments are needed. Assays can be directly performed on serum samples.

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