

Iron Colorimetric Assay Kit

Cat No: HR3BC1222

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8°
Instrument	Microplate reader(510-530 nm,optimum wavelength: 520 nm)
Assay Time	25 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum,tissue
Synonyms	Fe
Instrument	Microplate reader(510-530 nm,optimum wavelength: 520 nm)
Detection Principle	Under the action of acidic solution and reductant, ferric ions can be separated from transferrin in serum, and reduced into ferrous ions (Fe ²⁺). The latter then bind to bipyridine and form pink complexes. The concentration of iron can be calculated by measuring the OD value at 520 nm indirectly.
Reagents	Normal saline (0.9% NaCl), PBS (0.01 M, pH 7.4)
Labware	Micropipettor, Centrifuge, Water bath, Incubator, Vortex mixer
Size	96T
Sensitivity	0.08 mg/L
Detection Range	0.29-10 mg/L
Recovery Rate	96