

Iron Colorimetric Assay Kit

Cat No: HR3BC1142

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Spectrophotometer(520 nm)
Assay Time	50 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum,tissue
Synonyms	Fe
Instrument	Spectrophotometer(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, Vortex mixer, Incubator, Centrifuge
Size	100Assays
Sensitivity	0.072 mg/L
Detection Range	0.072-60 mg/L
Recovery Rate	99