

Ferrous Ion Colorimetric Assay Kit

Cat No: HR3BC1268

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8°
Instrument	Spectrophotometer(520 nm)
Assay Time	45 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum, plasma, animal tissue
Synonyms	
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	
Labware	Test tubes, Vortex Mixer, Centrifuge, Water bath, Test tubes, Vortex Mixer, Centrifuge, Water bath
Size	100 Assays
Sensitivity	0.08 mg/L
Detection Range	0.08-60 mg/L
Recovery Rate	97