

Ferrous Ion Assay Kit

Ferrous Ion Colorimetric Assay Kit

CATALOG #
AAA177798

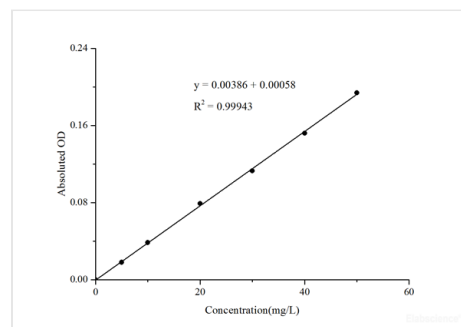
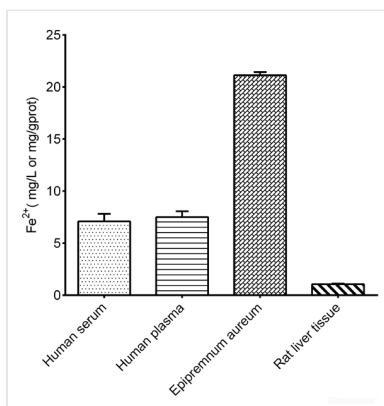
PRODUCT SYNONYMS

Ferrous Ion; Ferrous Ion Colorimetric Assay Kit; Ferrous Ion assay kit

PRODUCT SPECIFICATIONS

Samples	Serum, plasma and tissue samples
Detection Range	0.08-50 mg/L
Sensitivity	0.08 mg/L
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months

IMAGES



Standard Curve (Sample)

Application Data

ADDITIONAL INFORMATION

Related Product Information for Ferrous Ion assay kit

Intended Uses: This kit can be used to measure the concentration of ferrous iron in serum, plasma and tissue samples.

Principle of the Assay: Under the action of acidic solution and reductant, ferric ions can be separated from transferrin in serum, and reduced into ferrous ions (Fe²⁺). 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.

Background/Introduction: Serum iron is an essential element in human body. Iron with physiological activity mainly exists in the form of ferroheme and transferrin in plasma. 65% of the iron in the body is bound up in hemoglobin molecules in red blood cells. About 4% is bound up in myoglobin molecules. Around 30% of the iron in the body is stored as ferritin or hemosiderin in the spleen, the bone marrow and the liver. Small amounts of iron can be found in other molecules in cells throughout the body. None of this iron is directly accessible by testing the serum. However, some iron is circulating in the serum. Transferrin is a molecule produced by the liver that binds one or two iron (III) ions, i.e. ferric iron, Fe³⁺. Transferrin is essential if stored iron is to be moved and used.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/ferrous-ion/177798>