

## Iron & TIBC Kit Ferrozine Method

### Intended Use:

Iron found in blood is mainly present in the hemoglobin of the RBC's. Its role in the body is mainly in the transportation of oxygen and cellular oxidation. Increased serum levels are found in hemolytic anemias, hepatitis, lead and iron poisoning. Decreased serum levels are found in anemias caused by iron deficiency due to insufficient intake or absorption of iron, chronic blood loss, late pregnancy and cancer. Increase in TIBC in iron deficient anemias and pregnancy. Decrease in TIBC found in hypoproteinemia, hemolytic/ pernicious / sicklecell anemias, inflammatory diseases and cirrhosis. Iron & TIBC kit uses ferrozine method to determine iron and total iron capacity in serum.

### Iron & TIBC Kit components:

L1	Iron Buffer Reagent
L2	Iron Color Reagent
S	Iron Standard (100 µg/dl)
L1	TIBC Saturating Reagent
L2	TIBC Precipitating Reagent
Other Accessories	Package Insert

### System Parameters

<b>Reaction</b>	: End Point + S.B.	<b>Interval</b>	: ---
<b>Wavelength</b>	: 578 nm	<b>Sample Vol.</b>	: 0.2 ml
<b>Zero Setting</b>	: Deionised Water	<b>Reagent Vol.</b>	: 1.05 ml
<b>Incub. Temp</b>	: R.T.	<b>Standard</b>	: 100 µg/dl
<b>Incub. Time</b>	: 5 min.	<b>Factor</b>	: ---
<b>Delay Time</b>	: ---	<b>React. Slope</b>	: Increasing
<b>Read Time</b>	: ---	<b>Linearity</b>	: 1000 µg/dl
<b>No. of read.</b>	: ---	<b>Units</b>	: µg/dl

Storage / Stability	Temperature	Duration
Unopened kit	2-8°C	18 Months
Opened kit	2-8°C	18 Months
In use stability (Iron)	2-8°C	7 Days

Available Pack Sizes	
35 ml	75 ml
10 X 35 ml	150 ml