

## LAB3798 Unbound Iron Binding Capacity

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BMC

### Performing Location(s)

BMC

### Specimen Type

Serum

### Preferred Container

Gold or Red top tube

### Minimum Volume to Submit for Testing

1 mL Serum

Multiple test can be performed from this volume.

For question please contact the lab at 547-3975.

### Storage Requirements

Sample tubes should be centrifuged within 2 hours of collection followed by transfer of the serum (red or gold top) to a labeled plastic, aliquot tube.

See Causes of Rejection for temperature requirements.

### Transportation Needs

Deliver specimen to the laboratory within 1 hour of collection.

If not possible see "Storage Requirements"

### Causes for Rejection

Mislabeled or unlabeled specimen

Less than 50% draw for vacutainer tubes

> 7 days refrigerated

> 4 days room temperature

> 40 days frozen

Hemolysis > 50 mg/dL HgB

Lipemia > 400 mg/dL Trig

Bilirubin > 40 mg/dL Bili

Heparin, EDTA, NaF

### Reference Values

Population	Reference Range	Units
All Population	130-375	ug/dL

Serum iron is carried by binding to the transport protein, Transferrin. The measurement of the maximum concentration of iron that Transferrin can bind is called the Total Iron Binding Capacity (TIBC).

Normally, only about one third of the iron binding sites of Transferrin are occupied by iron; therefore, transferrin has considerable reserve iron binding capacity. This is called the serum Unsaturated Iron Binding Capacity (UIBC).

Unbound Iron Binding Capacity equals the Total Iron Binding Capacity minus serum iron (UIBC = TIBC - Serum Iron)

**Includes**

The Unbound Iron Binding Capacity is a calculated test. It is calculated from the Serum Iron and the Iron Binding Capacity.

When the Unbound Iron Binding Capacity is ordered:

If a Serum Iron and TIBC have already been performed, the test will be calculated and reported at no charge.

If a Serum Iron and/or TIBC has not already been performed, they will be performed, reported and billed (CPT'S: 83540 and 83550)

**Available STAT**

No

**Methodology**

See individual components i.e. Serum Iron (IRN) and the Iron Binding Capacity (TIBC)

**CPT Code**

See "Includes"