



Labsmart Software Sample Letterhead

+91 12345 67890

yourlabname@gmail.com

<https://www.yourlabname.in/>**Mr. Saubhik Bhaumik**

Age / Sex : 27 YRS / M
Referred by : Dr. Sachin Patil (MBBS)
Reg. no. : 1072



1072

Registered on : 12/11/2024 05:52 PM
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**BIOCHEMISTRY**

TEST	VALUE	UNIT	REFERENCE
TOTAL IRON BINDING CAPACITY (TIBC)	260	µg/dl	240 - 450

Physiologic Basis

Iron is transported in plasma complexed to transferrin, which is synthesized in the liver. Total iron-binding capacity is calculated from transferrin levels measured immunologically. Each molecule of transferrin has two iron-binding sites; so its iron-binding capacity is 1.47 mg/g. Normally, transferrin carries an amount of iron representing about 16–60% of its capacity to bind iron (eg, % saturation of iron-binding capacity is 16–60%).

Interpretation

Increased in:	Decreased in:
Iron deficiency anemia, late pregnancy, infancy, acute hepatitis. Drugs: oral contraceptives	Hypoproteinemic states (eg, nephrotic syndrome, starvation, malnutrition, cancer), hemochromatosis, thalassemia, hyperthyroidism, chronic infections, chronic inflammatory disorders, chronic liver disease, other chronic diseases.

Comments

TIBC correlates with serum transferrin, but the relationship is not linear over a wide range of transferrin values and is disrupted in diseases affecting transferrin-binding capacity or other iron-binding proteins. Increased % transferrin saturation with iron is seen in iron overload (iron poisoning, hemolytic anemia, sideroblastic anemia, thalassemia, hemochromatosis, pyridoxine deficiency, aplastic anemia, RBC transfusions). Decreased % transferrin saturation with iron is seen in iron deficiency (usually saturation <16%). Transferrin levels can also be used to assess nutritional status.

~~~ End of report ~~~

Mr. Sachin Sharma  
DMLT, Lab Incharge

Dr. A. K. Asthana  
MBBS, MD Pathologist

NOT VALID FOR MEDICO LEGAL PURPOSE

Work timings: Monday to Sunday, 8 am to 8 pm

Please correlate clinically. Although the test results are checked thoroughly, in case of any unexpected test results which could be due to machine error or typing error or any other reason please contact the lab immediately for a free evaluation.