

PT Name : RUCHIKA SONAWANE
Ref By : DR. POOJA BANSAL
Reg No : HL3101287484 / MH080
Barcode : HDO075155
INV : IRON PROFILE

Age : 25 Year | Sex : Female
Registered on : 27-11-2025 09:50 PM
Received on : 28-11-2025 01:18 AM
Reported on : 28-11-2025 07:29 AM

SAMPLE COLLECTED AT :



SAMPLE : Serum

IRON PROFILE

TEST DESCRIPTION	RESULT	UNITS	BIOLOGICAL REFERENCE RANGE
IRON Method: FERROZINE METHOD WITHOUT DEPROTEINIZATION	18.84	ug/dl	50 - 170
TOTAL IRON BINDING CAPACITY (TIBC) Method: SPECTROPHOTOMETRIC ASSAY	545.69	ug/dl	215 - 535
TRANSFERRIN SATURATION % Method: CALCULATED	3.45	%	13 - 45

Clinical significance :
Iron is an essential trace mineral element which forms an important component of hemoglobin, metallocompounds and Vitamin A. Deficiency of iron, leads to microcytic hypochromic anemia. The toxic effects of iron are deposition of iron in various organs of the body and hemochromatosis.

Total Iron Binding capacity (TIBC) is a direct measure of the protein Transferrin which transports iron from the gut to storage sites in the bone marrow. In iron deficiency anemia, serum iron is reduced and TIBC increases.

Transferrin Saturation occurs in Idiopathic hemochromatosis and Transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of Transferrin.

Please correlate with clinical conditions

~~End of report~~

Pallavi.

Dr. PALLAVI SAXENA (MD PATH)
Consultant Pathologist (Reg. 0375)