



LABORATORY REPORT

NAME	: MR.PR0434	REFERRED BY	: SELF	VISIT NO	: VAMP26148158
AGE	: 40Y 0M 0D	ZERO TARIFF CLIENT CODE		COLLECTED ON	: 21-04-2026 10:00
GENDER	: Male	LAB MR#	: AAMP01479437	RECEIVED ON	: 21-04-2026 19:51
OP / IP / DG #	:			APPROVED ON	: 22-04-2026 18:07
				REPORT STATUS	: Final Report



Test Name	Result	Biological Ref. Interval	Unit
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Iron Profile With Ferritin

BIOCHEMISTRY

Ferritin (Serum)

Ferritin ECLIA	265.00	30-400	ng/mL
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Interpretation:

Ferritin is iron storage protein. Determination of ferritin is necessary in iron deficiency anemia, monitoring iron therapy and in differential diagnosis of anemia

Elevation levels seen in

- Hemochromatosis
- Porphyria
- Rheumatoid arthrosis
- Leukaemia
- Hodgkin's lymphoma
- Liver disease
- Multiple blood transfusion
- Acute phase reactant
- Increased in all inflammatory condition

Decreased level

- Iron deficiency anemia

Serum Iron (Serum)

Iron FerroZine Colorimetric Assay	95.0	59-158	µg/dL
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Interpretation:

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.

Iron Binding Capacity - Total (TIBC) (Serum)

Iron FerroZine Colorimetric Assay	95.0	59-158	µg/dL
Unsaturated Iron Binding Capacity (UIBC) Direct determination with FerroZine	225.0	125 - 345	µg/dL
Iron Binding Capacity - Total (TIBC) Calculation	320.0	228-428	µg/dL
Transferrin Saturation Index (TSI) Calculation	29.7	16-45	

Interpretation:

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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 an essential test used for the diagnosis of iron deficiency anemias and other disorders of iron metabolism. Iron binding capacity is the capacity of transferrin to bind with iron. Iron binding capacity is of two types, TIBC and unsaturated iron-binding capacity (UIBC). TIBC is the total of serum iron and UIBC. When iron stores are depleted, the transferrin levels increase in the blood. As only one-third of transferrin is saturated with iron, so the transferrin present in serum has an extra binding capacity. This is unsaturated iron-binding capacity.

Increases in iron-binding capacity are observed with the following:

- Iron deficiency states
- Acute liver damage
- Acute and chronic blood loss
- Late pregnancy
- Progesterone birth control pills

Decreases in iron-binding capacity are associated with the following:

- Hemochromatosis
- Hemosiderosis
- Thalassemia
- Hyperthyroidism
- Nephrotic syndrome

Anemia of chronic diseases **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.

Sanjeeta

Dr. Sanjeeta
MBBS,MD (Biochemistry)
Consultant Biochemist

Disclaimer:

- All results released pertain to the specimen as received by the lab for testing and under the assumption that the patient indicated or identified on the bill/test requisition form is the owner of the specimen.
- Clinical details and consent forms, especially in Genetic testing, histopathology, as well as wherever applicable, are mandatory to be accompanied with the test requisition form. The non-availability of such information may lead to delay in reporting as well as misinterpretation of test results. The lab will not be responsible for any such delays or misinterpretations thereof.
- Test results are dependent on the quality of the sample received by the lab. In case the samples are preprocessed elsewhere (e.g., paraffin blocks), results may be compromised.
- Tests are performed as per the schedule given in the test listing and in any unforeseen circumstances, report delivery may be affected.
- Test results may show inter-laboratory as well as intra-laboratory variations as per the acceptable norms.
- Genetic reports as well as reports of other tests should be correlated with clinical details and other available test reports by a qualified medical practitioner. Genetic counselling is advised in genetic test reports by a qualified genetic counsellor,





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medical practitioner or both.

7. Samples will be discarded post processing after a specified period as per the laboratory's retention policy. Kindly get in touch with the lab for more information.

8. If accidental damage, loss, or destruction of the specimen is not attributable to any direct or negligent act or omission on the part of Ampath Labs or its employees, Ampath shall in no event be liable. Ampath lab's liability for a lack of services, or other mistakes and omissions, shall be restricted to the amount of the patient's payment for the pertinent laboratory services.

