

Laboratory Analysis Report

Name	: Ms / Olena Zynovieva	Lab ID	: 20617029
MRN	: 50498-0	Emirates / Passport ID	:
Gender	: Female	Reference No	:
Age / DOB	: 36 Y / 27-11-1988	Reg Date	: 04-SEP-2025 09:21 AM
Client Name	: York Diagnostic Laboratories	Collection Date	: 04-SEP-2025 09:21 AM
Referred by	:	Reporting Date	: 04-SEP-2025 06:27 PM
		Nationality	: Ukraine

CLINICAL CHEMISTRY REPORT

Test	Result	Unit	Reference Range	Methodology
*Ferritin	51.59	ng/mL	4.63 - 204.00	CMIA
<p><i>The availability of sensitive methods for measuring serum ferritin have significantly advanced the ability to detect iron deficiency and overload. The clinical assessment of iron stores has historically relied on the determination of serum iron, total iron-binding capacity (TIBC) and percent transferrin (ratio of serum iron and TIBC) or direct examination of bone marrow.</i></p> <p><i>Ferritin levels below 10 ng/mL have been reported as indicative of iron deficiency anemia. There are patients with iron deficiency anemia who have elevated or normal ferritin levels because of other causes, such as hepatocellular disease or iron therapy. The ferritin levels also can act as an acute-phase reactant protein and may be elevated in conditions not reflecting iron stores (e.g., acute inflammatory diseases, infections, metastatic cancer, lymphomas).</i></p> <p><i>Adult patients' reference: Alinity kit insert B7P650, October 2020.</i></p> <p><i>Pediatric Reference range: Pediatric Reference Intervals - American Association of Clinical Chemistry; Eight Edition - 2021, (age 4 days - 19 years).</i></p> <p><i>**Kindly note the change in Methodology and Reference ranges effective from 11/01/2024.</i></p>				
<u>Transferrin Saturation</u>				



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CLINICAL CHEMISTRY REPORT

Test	Result	Unit	Reference Range	Methodology
<u>Transferrin Saturation</u>				
*Iron	194	H ug/dL	50 - 170	Ferene
Test results to be interpreted in the light of clinical history & to be investigated further if necessary.				
<p><i>This assay is used as an aid in the diagnosis and treatment of diseases such as iron deficiency anemia, hemochromatosis (a disease associated with widespread deposit in the tissues of two iron-containing pigments, hemosiderin and hemofuscin, and characterized by pigmentation of the skin), and chronic renal disease.</i></p> <p><i>Iron dextran treatment can result in elevated total iron results. Use of the Iron assay for patients undergoing treatment with deferoxamine or other iron chelating compounds is not recommended. Transiently elevated iron levels can be observed post ingestion of supplements/vitamins that contain iron. Rifampicin levels above 5 mg/L may produce artificially low results with the Iron assay.</i></p> <p><i>Adult patients' reference: Alinity kit insert B4T980, March 2022.</i></p> <p><i>Pediatric Reference range: Pediatric Reference Intervals - American Association of Clinical Chemistry; Eight Edition - 2021, (age 1 year- 14 years).</i></p> <p><i>**Kindly note the change in Methodology and Reference ranges effective from 08/02/2024.</i></p>				
Total Iron Binding Capacity (TIBC)	387	ug/dL	240 - 450	Calculation
<p><i>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. TIBC is a surrogate for transferrin and has a direct relationship to it. TIBC is also used in iron overload scenarios to establish the diagnosis.</i></p> <p><i>Reference: National Library of Medicine; Iron Binding Capacity- Article by Arjumand Faruqi, Shiva Kumar R. Mukkamalla; published in Jan 2023.</i></p> <p><i>**Kindly note the change in Methodology and Reference ranges effective from 13/01/2024.</i></p>				



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Test	Result	Unit	Reference Range	Methodology	
<u>Transferrin Saturation</u>					
Transferrin Saturation	50.1	H	%	15.0 - 50.0	Calculation
Test results to be interpreted in the light of clinical history & to be investigated further if necessary.					
<p><i>**Kindly note the change in Methodology and Reference ranges effective from 17/01/2024. Reference: Mosby's Diagnostic and Laboratory Test Reference- Fifteenth Edition.</i></p>					

- Samples are processed on the same day of request unless indicated. (#)Result obtained from an external accredited laboratory
- Results reported are for the samples received and reference range is age related when applicable

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