

BML505423

Laboratory Investigation Report

Name	: Ms. SASNIKA WIJAYA KUMARA VISHVANASH	Ref No.	: 45323
DOB	: 24/09/2004	Sample No.	: 2412517729
Age / Gender	: 20 Y 3 M / Female	Collected	: 25/12/2024 13:23
Referred by	: DR HUMAIRA	Registered	: 25/12/2024 22:07
Centre	: CITICARE MEDICAL CENTER	Reported	: 25/12/2024 23:39

BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
TIBC (TOTAL IRON BINDING CAPACITY)					
TOTAL IRON BINDING CAPACITY	420		µg/dL	168 - 585 Please note change in reference range.	Ferene
UIBC (UNSATURATED IRON BINDING CAPACITY)	402	H	µg/dL	135 - 392 Please note change. Source: Roche IFU.	FerroZine
IRON	18	L	ug/dL	33 - 193 Please note change. Source: Roche IFU.	Colorimetric assay

Sample Type : Serum

End of Report

Dr. Adley Mark Fernandes
M.D (Pathology)
Pathologist

Vyoma V. Shah
Dr. Vyoma V Shah
M.D (Pathology)
Clinical Pathologist

NAZAR MOHAMED ALI
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Laboratory Technologist

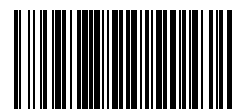
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Test result pertains only to the sample tested and to be interpreted in the light of clinical history. These tests are accredited under ISO 15189:2012 unless specified by (^). Test marked with # is performed in an accredited referral laboratory.





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HAEMATOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
HAEMOGLOBIN ELECTROPHORESIS[^]					
Foetal Haemoglobin (HbF)	0.0		%	=/ < 0.5	Capillary electrophoresis
Haemoglobin A0 (Hb A0)	98.2	H	%	96.8 - 97.8	Capillary electrophoresis
Haemoglobin A2 (Hb A2)	1.8	L	%	2.2 - 3.4	Capillary electrophoresis
Haemoglobin S (HbS)	-		%	0 - 0	Capillary electrophoresis
Haemoglobin D (HbD)	-		%	0 - 0	Capillary electrophoresis
Haemoglobin C (HbC)	-		%	0 - 0	Capillary electrophoresis
Haemoglobins E (HbE)	-		%	0 - 0	Capillary electrophoresis

Impression: No evidence of Beta Thalassemia or Haemoglobinopathy. (See Remark 2).

INTERPRETATION NOTES :

- All results have to be correlated with age and history of blood transfusion. If there is a history of blood transfusion, repeat testing after 3 months from last date of transfusion is recommended.
- Iron Deficiency reduces HbA2 levels. HbA2 values between 1.5-2% constitute a grey zone which may be seen in both iron deficiency and in some thalassemias (eg. Alpha thalassemia). Correction of iron deficiency is advised before testing to ensure accurate results.
- Furthermore, even HbA2 values between 3.5-4% constitute a grey zone and molecular studies are recommended to rule out thalassemias.
- This test is only a screening test for Beta Thalassemia and hemoglobinopathies. Molecular/Genetic Studies is recommended to rule out alpha thalassemia and silent carriers.
- Mild to moderate increase in fetal hemoglobin can be seen in some acquired conditions such as pregnancy, megaloblastic anemia, thyrotoxicosis, hypoxia, recovering marrow, MDS, aplastic anemia, PNH, Chronic Kidney Disease, and medications such as Hydroxyurea, Erythropoietin, etc.
- In neonates and infants, repeat testing is advised after attaining one year of age for accurate results.
- The results should be considered in conjunction with family history, clinical picture, laboratory findings including RBC indices, iron studies and peripheral smear examination.
- In case of presence of hemoglobinopathy, DNA analysis of family members and genetic counselling is advised.

Please note update in method (Capillary electrophoresis), reference range and interpretation.

Sample Type : EDTA Whole Blood

End of Report

Dr. Adley Mark Fernandes
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Pathologist

Gyoma V. Shah
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Clinical Pathologist

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Laboratory Technologist

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