

TATA 1MG Technologies Pvt. Ltd
LABORATORY: Plot No. Y-17, Block - EP,
Electronic Complex, Bidhannagar,
Kolkata - 700091
www.1mg.com/labs
acare@1mg.com

CIN: U74140DL2015PTC279229

REGISTERED OFFICE: LEVEL 3, Vasant Square Mall, Pocket V, Sector B, Vasant Kunj New Delhi - 110070



PO No :PO2675209545-197

ient Name : TATA 1MG KOLKATA

Name: Ms.MEGHNA BALClient Name: TATA 1MG KOLKATAAge/Gender: 21/FemaleRegistration Date: 06-Nov-23 09:08 AMPatient ID: KOL308163Collection Date: 06/Nov/2023 08:10AMBarcode ID/Order ID: D6708889 / 8391868Sample Receive Date: 06/Nov/2023 09:28AM

Referred By : Dr. Report Status : Final Report

Sample Type : Whole Blood-EDTA Report Date : 06/Nov/2023 01:16PM

HAEMATOLOGY

	ENERGY	SCREENING PAC	KAGE	
Test Name	Result	Unit	Bio. Ref. Interval	Method
Complete Blood Count				
Hemoglobin	11.6	g/dL	12.0-15.0	Cyanide-free SLS- Hemoglobin
RBC	5.25	10^6/cu.mm	3.8-4.8	Impedance variation Measure
НСТ	35.2	%	36 - 46	Derived from - Impedance
MCV	67.1	fi	83 - 101	Derived from - Impedance
MCH	22.1	pg	27 - 32	Derived from - Impedance
MCHC	33.0	g/dL	31.5 - 34.5	Derived from - Impedance
RDW-CV	17.7	%	11.6-14	Derived from - Impedance
Total Leucocyte Count	9.96	$10^3/\mu$ L	4 - 10	Impedance and Absorbency/Microscopy
Differential Leucocyte Count				
Neutrophils	56.4	%	40-80	Impedance and Absorbency/Microscopy
Lymphocytes	36.3	%	20-40	Impedance and Absorbency/Microscopy
Monocytes	5.8	%	2-10	Impedance and Absorbency/Microscopy
Eosinophils	1.4	%	1-6	Impedance and Absorbency/Microscopy
Basophils Absolute Leucocyte Count	0.1	%	0-2	Impedance / Microscopy
Absolute Neutrophil Count	5.62	$10^3/\mu L$	2-7	Impedance and Absorbency/Calculated
Absolute Lymphocyte Count	3.62	$10^3/\mu L$	1-3	Impedance and Absorbency/Calculated
Absolute Monocyte Count	0.58	$10^3/\mu$ L	0.2-1	Impedance and Absorbency/Calculated
Absolute Eosinophil Count	0.14	10^3/μL	0.02-0.5	Impedance and Absorbency/Calculated









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HAEMATOLOGY

	ENERGY	SCREENING PA	CKAGE				
Test Name Result Unit Bio. Ref. Interval Method							
Absolute Basophil Count	0.01	10^3/μL	0.02-0.1	Impedance/Calculated			
Platelet Count 188		10^3/μL	150 - 410	Impedance/Microscopy			
MPV	11.1	fl	6.5 - 12	Derived from Impedance			
PDW	28	f1	9-17	Derived from Impedance			

Comment:

• As per the recommendation of International council for Standardization in Hematology, the differential leucocyte counts are additionally being reported as absolute numbers of each cell in per unit volume of blood.









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: Ms.MEGHNA BAL

: D6708888 / 8391868

: 21/Female

: KOL308163

: Dr.

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PO No: PO2675209545-197

Barcode ID/Order ID

Name

Age/Gender

Patient ID

Referred By

Client Name : TATA 1MG KOLKATA
Registration Date : 06-Nov-23 09:08 AM

: 06/Nov/2023 08:10AM

: 06/Nov/2023 09:24AM

Report Status : Final Report

Sample Type : Serum Report Date : 06/Nov/2023 12:16PM

BIOCHEMISTRY

Collection Date

Sample Receive Date

ENERGY SCREENING PACKAGE					
Test Name	Result	Unit	Bio. Ref. Interval	Method	
Serum Electrolyte					
Sodium	139	mEq/L	132-146	Indirect ISE	
Potassium	4.20	mEq/L	3.5-5.5	Indirect ISE	
Chloride	104.0	mEq/L	99-109	Indirect ISE	

Comment:

- Kidneys actively reabsorb or excrete electrolytes to maintain the electrolyte balance of the body. Owing to their small size, almost all electrolytes are filtered at the glomerulus. After filtration, most of the electrolytes are absorbed back at the tubular level but any problem at the tubular level will result in non- absorption and excessive loss of electrolytes in urine. Sodium along with chloride, potassium, and water is important in the regulation of osmotic pressure and water balance between intracellular and extracellular fluids.
- An increase in sodium concentration (hypernatremia) may indicate impaired sodium excretion or dehydration. Hypernatremia is rare but occurs most often in the elderly and is often hospital-acquired. A decrease in sodium concentration (hyponatremia) may reflect over hydration, abnormal sodium loss, or decreased sodium intake, seen in conditions such as nephrotic syndrome, heart failure, generalized edema, and cirrhosis.
- Hypokalemia and hyperkalemia are caused by changes in potassium intake, altered excretion, or transcellular shifts. Diuretic use and gastrointestinal losses are common causes of hypokalemia, whereas kidney disease, hyperglycemia, and medication use are common causes of hyperkalemia. When severe, potassium disorders can lead to life-threatening cardiac conduction disturbances and neuromuscular dysfunction. Therefore, a first priority is determining the need for urgent treatment through a combination of history, physical examination, laboratory, and electrocardiography findings.
- Serum chloride concentration can be elevated above the normal range hyperchloremia either by the addition of excess chloride to the ECF compartment or by the loss of water from this compartment, and vice versa. The serum chloride concentration can be reduced below the normal range (hypochloremia) by the loss of chloride from the ECF or the addition of water to this compartment. Hyperchloremia is common in critically ill people. Severe dehydration, Diarrhea and excessive urination, Metabolic acidosis, Kidney disease, Chemotherapy may lead to hyperchloremia. Newborn babies often have hyperchloremia because their chloride levels rise in the week after birth. However, this is nothing to worry about, as the levels rise naturally and do not indicate a health problem. Hypochloremia may be seen in Low salt intake in the diet, Metabolic alkalosis, Certain medications, such as diuretics and laxatives, as these may reduce the amount of fluid in the body, Addison's Disease, etc.









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Referred By : Dr. Report Status : Final Report

Sample Type : Fluoride Plasma F Report Date : 06/Nov/2023 12:16PM

BIOCHEMISTRY

ENERGY SCREENING PACKAGE					
Test Name	Result	Unit	Bio. Ref. Interval	Method	

Glucose - Fasting

Glucose - Fasting 85 mg/dL 70.0-99.0 Hexokinase

Fasting Plasma Glucose (mg/dL)	2 hr plasma Glucose (mg/dL)	Diagnosis
99 or below	139 or below	Normal
100 to 125	140 to 199	Pre-Diabetes (IGT)
126 or above	200 or above	Diabetes

Reference: American Diabetes Association

Comment:

Impaired glucose tolerance (IGT) fasting, means a person has an increased risk of developing type 2 diabetes but does not have it yet. A level of 126 mg/dL or above, confirmed by repeating the test on another day, means a person has diabetes. IGT (2 hrs Post meal), means a person has an increased risk of developing type 2 diabetes but does not have it yet. A 2-hour glucose level of 200 mg/dL or above, confirmed by repeating the test on another day, means a person has diabetes

Plasma Glucose Goals	For people with Diabetes
Before meal	70-130 mg/dL
2 Hours after meal	Less than 180 mg/dL
HbA1c	Less than 7%







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Referred By : Dr. Report Status : Final Report

: Serum Report Date : 06/Nov/2023 12:16PM Sample Type

BIOCHEMISTRY

	ENERGY SCREENING PACKAGE				
Test Name	Result	Unit	Bio. Ref. Interval	Method	
Iron Studies, Basic					
Iron Serum	39	μg/dL	50-170	Ferrozine	
Unsaturated Iron Binding Capacity	437	μg/dL	120-470	Ferene	
Total Iron Binding Capacity (TIBC)	476	μg/dL	240-450	Calculated	
Transferrin Saturation	8.19	%	16 - 50	Calculated	

Comment:

Iron is an essential trace mineral element which forms an important component of hemoglobin, metallocompounds and Vitamin A. Deficiency of iron is seen in iron deficiency and anaemia of chronic disorders. Increased iron concentration are seen in hemolytic anaemias, hemochromatosis and acute liver disease. Serum Iron alone is

unreliable due to considerable physiologic diurnal variation in the results with highest values in the morning and lowest values in the evening as well as variation in response to iron therapy.

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. Increased levels of TIBC suggest that total iron body stores are low, increased concentration may be the sign of Iron deficiency anaemia, polycythemia vera ,and may occur during the third trimester of pregnancy. Decreased levels may be seen in hemolytic anaemia, hemochromatosis, chronic liver disease, hypoproteinemia ,malnutrition.

Unsaturated Iron Binding Capacity (UIBC) is increased in low iron state and decreased in high iron concentration such as hemochromatosis. In case of anaemia of chronic disease the patient may be anaemic but has adequate iron reserve and a low uIBC.

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.









TATA IMG Technologies Pvt. Ltd
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TATA ING YOU KATA

Name : Ms.MEGHNA BAL Client Name : TATA 1MG KOLKATA Age/Gender : 21/Female Registration Date : 06-Nov-23 09:08 AM Patient ID : KOL308163 Collection Date : 06/Nov/2023 08:10AM Barcode ID/Order ID : D6708888 / 8391868 : 06/Nov/2023 09:24AM Sample Receive Date

Referred By : Dr. Report Status : Final Report

Sample Type : Serum Report Date : 06/Nov/2023 01:01PM

Immunology

ENERGY SCREENING PACKAGE					
Test Name	Result	Unit	Bio. Ref. Interval	Method	
Vitamin D (25-OH)	9.3	ng/ml	Deficiency:< 20, Insufficiency:20-29, Sufficiency:30 - 100, Toxicity possible:> 10		

Comment:

- Vitamin D is a fat-soluble steroid prohormone involved in the intestinal absorption of calcium and the regulation of calcium homeostasis.
- Two forms of vitamin D are biologically relevant vitamin D3 (Cholecalciferol) and vitamin D2 (Ergocalciferol).
- Both vitamins D3 and D2 can be absorbed from food but only an estimated 10-20perc. of vitamin D is supplied through nutritional intake.
- Vitamin D is converted to the active hormone 1,25-(OH)2-vitamin D (Calcitriol) through two hydroxylation reactions. The first hydroxylation converts vitamin D into 25-OH vitamin D and occurs in the liver. The second hydroxylation converts 25-OH vitamin D into the biologically active 1,25-(OH)2-vitamin D and occurs in the kidneys as well as in many other cells of the body.
- Most cells express the vitamin D receptor and about 3perc. of the human genome is directly or indirectly regulated by the vitamin D endocrine system.
- The major storage form of vitamin D is 25-OH vitamin D and is present in the blood at up to 1,000 fold higher concentration compared to the active 1,25-(OH)2-vitamin D. 25-OH vitamin D has a half-life of 2-3 weeks vs. 4 hours for 1,25-(OH)2-vitamin D. Therefore, 25-OH vitamin D is the analyte of choice for determination of the vitamin D status.
- Risk factors for vitamin D deficiency include low sun exposure, inadequate intake, decreased absorption, abnormal metabolism, vitamin D resistance and and liver or kidney diseases.
- Vitamin D deficiency is a cause of secondary hyperparathyroidism and diseases resulting in impaired bone metabolism (like rickets, osteomalacia).
- Recently, many chronic diseases such as cancer, high blood pressure, osteoporosis and several autoimmune diseases
 have been linked to vitamin D deficiency.
- The assay measures both D2 (Ergocalciferol) and D3 (Cholecalciferol) metabolites of vitamin D

Utility Quantitative determination of 25-hydroxyvitamin D (25-OH vitamin D).







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Immunology

ENERGY SCREENING PACKAGE				
Test Name	Result	Unit	Bio. Ref. Interval	Method
Vitamin B12	230.0	pg/ml	211-911	CLIA

Comment:

- Vitamin B12 along with folate is essential for DNA synthesis and myelin formation.
- **Decreased levels** are seen in anaemia, term pregnancy, vegetarian diet, intrinsic factor deficiency, partial gastrectomy/ileal damage, celiac disease, oral contraceptive use, parasitic infestation, pancreatic deficiency, treated epilepsy, smoking, hemodialysis and advanced age.
- Increased levels are seen in renal failure, hepatocelluar disorders, myeloproliferative disorders and at times with excess supplementation of vitamins pills.

*** End Of Report ***







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Test results released pertain to the sample, as received. Laboratory investigations are only a tool to facilitate in arriving at a diagnosis and should be clinically correlated by the interpreting clinician. Result delays may happen because of unforeseen or uncontrollable circumstances. Test report may vary depending on the assay method used. Test results may show inter-laboratory variations. Test results are not valid for medico-legal purposes. Please mail your queries related to test results to Customer Care mail ID cs.labs@lmg.com

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