

Patient Name : Mr MR.DUMMY	Sample Collected : Apr 26, 2024, 01:00 PM
DOB/Age/Gender : 23 Y/Male	Report Date : May 04, 2024, 12:32 PM
Patient ID / UHID : 8051937/RCL7248478	Barcode No : ZC616974
Referred By : Dr. Dr. X	Report Status : Final Report
Sample Type : Serum	

Test Description	Value(s)	Unit(s)	Reference Range
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**Liver & Kidney Profile**

**Liver Function Test (LFT)**

Bilirubin Total <i>Diazo</i>	1.0	mg/dL	0 - 1.2
Bilirubin Direct <i>Diazo Jondrof</i>	0.2	mg/dL	0 - 0.20
Bilirubin Indirect <i>Calculation (T Bil - D Bil)</i>	0.8	mg/dL	0.1 - 1.0
SGOT/AST <i>IFCC without P5P</i>	39.0	U/L	up to 40
SGPT/ALT <i>IFCC without P5P</i>	37.9	U/L	up to 41
SGOT/SGPT Ratio <i>Calculated</i>	1.03	%	-
Alkaline Phosphatase <i>IFCC</i>	120.0	U/L	40 - 129
Total Protein <i>Biuret</i>	8.2	g/dL	6.4 - 8.3
Albumin <i>BCG Colorimetric</i>	5.1	g/dL	3.5 - 5.2
Globulin <i>Calculation (T.P - Albumin)</i>	3.1	g/dL	2.3 - 3.5
Albumin :Globulin Ratio <i>Calculation (Albumin/Globulin)</i>	1.65	-	1.3 - 2.1
Gamma Glutamyl Transferase (GGT) <i>IFCC Colorimetric</i>	59.0	U/L	8 - 61

**Interpretation:**

The liver filters and processes blood as it circulates through the body. It metabolizes nutrients, detoxifies harmful substances, makes blood clotting proteins, and performs many other vital functions. The cells in the liver contain proteins called enzymes that drive these chemical reactions. When liver cells are damaged or destroyed, the enzymes in the cells leak out into the blood, where they can be measured by blood tests Liver tests check the blood for two main liver enzymes. Aspartate aminotransferase (AST),SGOT: The AST enzyme is also found in muscles and many other tissues besides the liver. Alanine aminotransferase (ALT), SGPT: ALT is almost exclusively found in the liver. If ALT and AST are found together in elevated amounts in the blood, liver damage is most likely present. Alkaline Phosphatase and GGT: Another of the liver's key functions is the production of bile, which helps digest fat. Bile flows through the liver in a system of small tubes (ducts), and is eventually stored in the gallbladder, under the liver. When bile flow is slow or blocked, blood levels of certain liver enzymes rise: Alkaline phosphatase Gamma-utamyl transpeptidase (GGT) Liver tests may check for any or all of these enzymes in the blood. Alkaline phosphatase is by far the most commonly tested of the three. If alkaline phosphatase and GGT are elevated, a problem with bile flow is most likely present. Bile flow problems can be due to a problem in the liver, the gallbladder, or the tubes connecting them. Proteins are important building blocks of all cells and tissues. Proteins are necessary for your body's growth, development, and health. Blood contains two classes of protein, albumin and globulin. Albumin proteins keep fluid from leaking out of blood vessels. Globulin proteins play an important role in your immune system. Low total protein may

**Indicate:**

- 1.Bleeding
- 2.Liver disorder
- 3.Malnutrition



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Booking Centre :- DEMO PARTNER CHENNAI, DEMO PARTNER CHENNAI  
Processing Lab :-

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4. Agammaglobulinemia High Protein levels 'Hyperproteinemia: May be seen in dehydration due to inadequate water intake or to excessive water loss (eg, severe vomiting, diarrhea, Addison's disease and diabetic acidosis) or as a result of increased production of proteins Low albumin levels may be			
<b>Caused by:</b>			
1. A poor diet (malnutrition).			
2. Kidney disease.			
3. Liver disease. High albumin levels may be caused by: Severe dehydration.			



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### Kidney Function Test (KFT)

Blood Urea <i>Urease with UV</i>	32.0	mg/dL	16.6 - 48.5
Creatinine <i>Jaffes</i>	0.89	mg/dL	0.70 - 1.20
Bun <i>Calculated</i>	14.95	mg/dL	6 - 20
Bun/Creatinine Ratio <i>Calculated</i>	16.8		
Urea / Creatinine Ratio	35.96		
Uric Acid <i>Uricase</i>	5.0	mg/dL	3.4 - 7.0
Calcium Serum <i>BAPTA</i>	10.0	mg/dL	8.6 - 10.0
Phosphorus <i>Molybdate UV</i>	4.2	mg/dL	2.5 - 4.5
Sodium <i>ISE-Indirect</i>	142.0	mmol/L	136 - 145
Potassium <i>ISE-Indirect</i>	4.7	mmol/L	3.5 - 5.1
Chloride <i>ISE-Indirect</i>	103.0	mmol/L	98 - 107

#### Interpretation:

Kidney function tests is a collective term for a variety of individual tests and procedures that can be done to evaluate how well the kidneys are functioning. Many conditions can affect the ability of the kidneys to carry out their vital functions. Some lead to a rapid (acute) decline in kidney function others lead to a gradual (chronic) decline in function. Both result in a buildup of toxic waste substance on urine samples, as well as on blood samples. A number of symptoms may indicate a problem with your kidneys. These include : high blood pressure, blood in urine frequent urges to urinate, difficulty beginning urination, painful urination, swelling in the hands and feet due to a buildup of fluids in the body. A single symptom may not mean something serious. However, when occurring simultaneously, these symptoms suggest that your kidneys are not working properly. Kidney function tests can help determine the reason. Electrolytes (sodium, potassium, and chloride) are present in the human body and the balancing act of the electrolytes in our bodies is essential for normal function of our cells and organs. There has to be a balance. Ionized calcium this test if you have signs of kidney or parathyroid disease. The test may also be done to monitor progress and treatment of these diseases.



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**Lactate Dehydrogenase (LDH), Serum**

LDH:Lactate Dehydrogenase <i>IFCC</i>	178.0	U/L	up to 250
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**Interpretation:**

- 1-Marked elevations in Lactate Dehydrogenase (LDH) activity can be observed in megaloblastic anemia, untreated pernicious anaemia, Hodgkin's disease, abdominal and lung cancers, severe shock, and hypoxia.
- 2-Moderate to slight increases in LDH levels are seen in myocardial infarction (MI), pulmonary infarction, pulmonary embolism, leukemia, hemolytic anemia, infectious mononucleosis, progressive muscular dystrophy (especially in the early and middle stages of the disease), liver disease, and renal disease.
- 3-In liver disease, elevations of LHD are not as great as the increases in aspartate amino transferase (AST) and alanine aminotransferase (ALT).
- 4-Increased levels of the enzyme are found in about one third of patients with renal disease, especially those with tubular necrosis or pyelonephritis. However, these elevations do not correlate well with proteinuria or other parameters of renal disease On occasion a raised LDH level may be the only evidence to suggest the presence of a hidden pulmonary embolus.

**Caution:**

1-Red blood cells contain much more lactate dehydrogenase (LDH) than serum. A hemolyzed specimen is not acceptable. LDH activity is one of the most sensitive indicators of in vitro hemolysis. Causes can include transportation via pneumatic tube, vigorous mixing, or traumatic venipuncture.



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Patient ID / UHID : 8051937/RCL7248478	Barcode No : YA594336
Referred By : Dr. Dr. X	Report Status : Final Report
Sample Type : Spot Urine	

Test Description	Value(s)	Unit(s)	Reference Range
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**Urine Routine and Microscopic Examination**

Physical Examination			
Volume	20	ml	-
Colour	Pale yellow	-	Pale yellow
Transparency	Clear	-	Clear
Deposit	Absent	-	Absent
Chemical Examination			
Reaction (pH) <i>Double Indicator</i>	6.0	-	4.5 - 8.0
Specific Gravity <i>Ion Exchange</i>	1.020	-	1.010 - 1.030
Urine Glucose (sugar) <i>Oxidase / Peroxidase</i>	Negative	-	Negative
Urine Protein (Albumin) <i>Acid / Base Colour Exchange</i>	Negative	-	Negative
Urine Ketones (Acetone) <i>Legals Test</i>	Negative	-	Negative
Blood <i>Peroxidase Hemoglobin</i>	Negative	-	Negative
Leucocyte esterase <i>Enzymatic Reaction</i>	Negative	-	Negative
Bilirubin Urine <i>Coupling Reaction</i>	Negative	-	Negative
Nitrite <i>Griless Test</i>	Negative	-	Negative
Urobilinogen <i>Ehrlichs Test</i>	Normal	-	Normal
Microscopic Examination			
Pus Cells (WBCs)	1-2	/hpf	0 - 5
Epithelial Cells	1-2	/hpf	0 - 4
Red blood Cells	Absent	/hpf	Absent
Crystals	Absent	-	Absent
Cast	Absent	-	Absent
Yeast Cells	Absent	-	Absent
Amorphous deposits	Absent	-	Absent
Bacteria	Absent	-	Absent
Protozoa	Absent	-	Absent

\*\*\* End Of Report \*\*\*

**Disclaimer: Method given in report are only indicative and can be changed depending upon type of machine and kit available at time of testing.**

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