

ROSHAN KUMAR YADAV

CLIENT'S NAME AND ADDRESS :







SRL Ltd 74,PASHCHIMI MARG,VASANT VIHAR NEW DELHI, 110057 NEW DELHI, INDIA Tel : 9111591115, Fax : CIN - U74899PB1995PLC045956 Email : customercare.palammarg@srl.in

Test Report Status <u>Final</u>	Results Biological	Reference Interval Units
REFERRING DOCTOR : SELF	CLIEF	NT PATIENT ID :
DRAWN : 09/04/2022 09:59 RECEIVED : 09/0	4/2022 10:01 REPORTED :	11/04/2022 09:10
ACCESSION NO: 0063VD002016 AGE: 32 Years	SEX : Male	
PATIENT NAME : ROSHAN KUMAR YADAV	Р	PATIENT ID : ROSHM05029063
	Email : customercare.palan	nmarg@srl.in

### MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN	16.7		13.0 - 17.0	g/dL
RED BLOOD CELL COUNT	5.89	High	4.5 - 5.5	mil/µL
WHITE BLOOD CELL COUNT	6.71		4.0 - 10.0	thou/µL
PLATELET COUNT	216		150 - 410	thou/µL
<b>RBC AND PLATELET INDICES</b>				
HEMATOCRIT	50.0		40 - 50	%
MEAN CORPUSCULAR VOL	84.9		83 - 101	fL
MEAN CORPUSCULAR HGB.	28.4		27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	33.4		31.5 - 34.5	g/dL
MENTZER INDEX	14.4			
RED CELL DISTRIBUTION WIDTH	13.0		11.6 - 14.0	%
MEAN PLATELET VOLUME	9.4		6.8 - 10.9	fL
WBC DIFFERENTIAL COUNT - NLR				
SEGMENTED NEUTROPHILS	75		40 - 80	%
ABSOLUTE NEUTROPHIL COUNT	5.03		2.0 - 7.0	thou/µL
LYMPHOCYTES	17	Low	20 - 40	%
ABSOLUTE LYMPHOCYTE COUNT	1.14		1 - 3	thou/µL
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	6.8			
EOSINOPHILS	03		1 - 6	%
ABSOLUTE EOSINOPHIL COUNT	0.20		0.02 - 0.50	thou/µL
MONOCYTES	05		2 - 10	%
ABSOLUTE MONOCYTE COUNT	0.34		0.20 - 1.00	thou/µL
BASOPHILS	0		0 - 2	%
ABSOLUTE BASOPHIL COUNT	0	Low	0.02 - 0.10	thou/µL
DIFFERENTIAL COUNT PERFORMED ON: METHOD : AUTOMATED ANALYZER / MICROSCOPY	EDTA SMEAR			

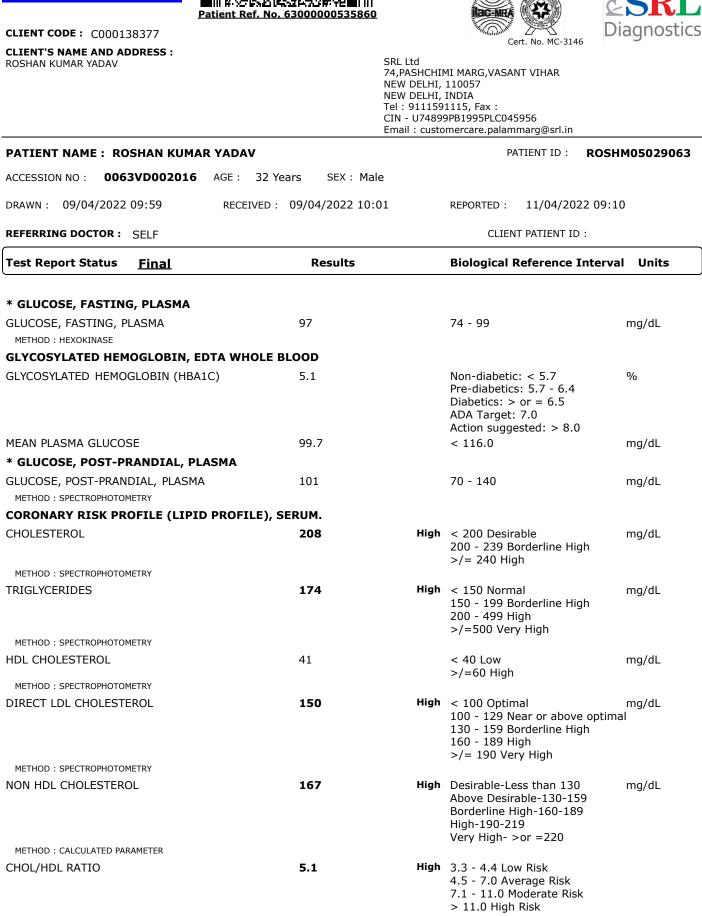
DISCLAIMER: THE ABSOLUTE WHITE CELL COUNTS ARE OUTSIDE THE NABL ACCREDITED SCOPE OF THE LABORATORY.

# **ERYTHRO SEDIMENTATION RATE, BLOOD**

SEDIMENTATION RATE (ESR)	08	0 - 14	mm at 1 hr
METHOD : MODIFIED WESTERGREN			







METHOD : CALCULATED PARAMETER

**DIAGNOSTIC REPORT** 







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11/04/2022 09:10



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LDL/HDL RATIO	3.7	High	0.5-3 Desirable/Low risk 3.1-6 Borderline/Moderate risk >6.0 High Risk	
VERY LOW DENSITY LIPOPROTEIN METHOD : CALCULATED PARAMETER	34.8	High	= 30</td <td>mg/dL</td>	mg/dL
* LIVER FUNCTION PROFILE, SERUM				
BILIRUBIN, TOTAL METHOD : SPECTROPHOTOMETRY	0.53		Upto 1.2	mg/dL
BILIRUBIN, DIRECT METHOD : SPECTROPHOTOMETRY	0.17		Upto 0.2	mg/dL
BILIRUBIN, INDIRECT METHOD : CALCULATED PARAMETER	0.36		0.00 - 0.60	mg/dL
TOTAL PROTEIN METHOD : SPECTROPHOTOMETRY	7.6		6.4 - 8.3	g/dL
ALBUMIN METHOD : SPECTROPHOTOMETRY	5.2	High	3.70 - 4.94	g/dL
GLOBULIN METHOD : CALCULATED PARAMETER	2.4		2.0 - 4.0	g/dL
ALBUMIN/GLOBULIN RATIO METHOD : CALCULATED PARAMETER	2.2	High	1.0 - 2.0	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT) METHOD : SPECTROPHOTOMETRY	23		0 - 40	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT) METHOD : SPECTROPHOTOMETRY	27		0 - 41	U/L
ALKALINE PHOSPHATASE METHOD : SPECTROPHOTOMETRY	127		40 - 129	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT) METHOD : SPECTROPHOTOMETRY	37		8 - 61	U/L
LACTATE DEHYDROGENASE METHOD : SPECTROPHOTOMETRY	181		135 - 225	U/L
* SERUM BLOOD UREA NITROGEN				
BLOOD UREA NITROGEN METHOD : SPECTROPHOTOMETRY	13		6 - 20	mg/dL
* CREATININE, SERUM				
CREATININE METHOD : SPECTROPHOTOMETRY	0.83		0.7 - 1.2	mg/dL

\* BUN/CREAT RATIO







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BUN/CREAT RATIO METHOD : CALCULATED PAR	RAMETER	15.66	High	5.00 - 15.00	
URIC ACID, SERUM					
URIC ACID		6.3		3.4 - 7.0	mg/dL
METHOD : SPECTROPHOTON	1ETRY				5, -
TOTAL PROTEIN, SEI	RUM				
TOTAL PROTEIN		7.6		6.4 - 8.3	g/dL
METHOD : SPECTROPHOTON	METRY				5,
ALBUMIN, SERUM					
ALBUMIN		5.2	High	3.97 - 4.94	g/dL
METHOD : SPECTROPHOTON	1ETRY				-
* GLOBULIN					
GLOBULIN		2.4		2.0 - 4.0	g/dL
METHOD : CALCULATED PAR	RAMETER				-
ELECTROLYTES (NA/	′K/CL), SERUM				
SODIUM		145		136 - 145	mmol/L
METHOD : SPECTROPHOTOM	1ETRY				
POTASSIUM		4.64		3.3 - 5.1	mmol/L
METHOD : SPECTROPHOTOM	IETRY				
CHLORIDE		101		98 - 106	mmol/L
METHOD : SPECTROPHOTON	METRY				
URINALYSIS					
COLOR		PALE YELLOW			
METHOD : MACROSCOPY					
APPEARANCE		CLEAR			
METHOD : VISUAL EXAMINA	ATION				
PH		6.0		4.7 - 7.5	
METHOD : PH INDICATOR A	ND REFLECTANCE, SPECTROPHOTOMET	RY			
SPECIFIC GRAVITY		<=1.005		1.003 - 1.035	
	TH REFLECTANCE, SPECTROPHOTOMETR				
GLUCOSE		NOT DETECTED		NOT DETECTED	
	SE WITH REFLECTANCE, SPECTROPHOT				
PROTEIN		NOT DETECTED		NOT DETECTED	
	OF INDICATORS WITH REFLECTANCE, S				
KETONES		NOT DETECTED		NOT DETECTED	
METHOD : ROTHERA'S WITH	I REFLECTANCE, SPECTROPHOTOMETRY				







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BLOOD	NOT DETECTED	NOT DETECTED

METHOD : PEROXIDASE METHOD WITH REFLECTANCE, SPECTROPHOTOMETRY BILIRUBIN NOT DETECTED NOT DETECTED METHOD : DIAZOTIZED WITH REFLECTANCE, SPECTROPHOTOMETRY UROBILINOGEN NORMAL NORMAL METHOD : EHRLICH REACTION WITH REFLECTANCE, SPECTROPHOTOMETRY NITRITE NOT DETECTED NOT DETECTED METHOD : DIAZONIUM COMPOUND WITH REFLECTANCE, SPECTROPHOTOMETRY PUS CELL (WBC'S) 0-5 /HPF 0-1 /HPF EPITHELIAL CELLS 0-1 0-5 METHOD : MICROSCOPIC EXAMINATION NOT DETECTED NOT DETECTED /HPF ERYTHROCYTES (RBC'S) METHOD : MICROSCOPIC EXAMINATION CASTS NOT DETECTED METHOD : MICROSCOPIC EXAMINATION NOT DETECTED CRYSTALS METHOD : MICROSCOPIC EXAMINATION NOT DETECTED NOT DETECTED BACTERIA METHOD : MICROSCOPIC EXAMINATION REMARKS NOTE:-MICROSCOPIC EXAMINATION OF URINE PERFORMED BY CENTRIFUGED URINARY SEDIMENT. METHOD : MANUAL \* THYROID PANEL, SERUM ng/dL Т3 113.4 80.00 - 200.00 METHOD : ELECTROCHEMILUMINESCENCE Τ4 7.42 5.10 - 14.10 µg/dL METHOD : ELECTROCHEMILUMINESCENCE 3.070 TSH 3RD GENERATION 0.270 - 4.200 µIU/mL **STOOL: OVA & PARASITE** REMARK SAMPLE NOT RECEIVED METHOD : MANUAL \* ABO GROUP & RH TYPE, EDTA WHOLE BLOOD ABO GROUP TYPE AB METHOD : MANUAL

POSITIVE



RH TYPE





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METHOD : MANUAL		
* XRAY-CHEST		
IMPRESSION	NORMAL	
TMT OR ECHO		
TMT OR ECHO	ECHO NORMAL	
ECG		
ECG	WITHIN NORMAL LIMI	ITS
* MEDICAL HISTORY		
RELEVANT PRESENT HISTORY	NOT SIGNIFICANT	
RELEVANT PAST HISTORY	NOT SIGNIFICANT	
RELEVANT PERSONAL HISTORY	MARRIED,NO CHILD,V	'EG,NO SMOKING,OCC DRINKING.
RELEVANT FAMILY HISTORY	DIABETES	
OCCUPATIONAL HISTORY	NOT SIGNIFICANT	
HISTORY OF MEDICATIONS	NOT SIGNIFICANT	
* ANTHROPOMETRIC DATA & BMI		
HEIGHT IN METERS	1.79	mts
WEIGHT IN KGS.	99	Kgs
ВМІ	31	BMI & Weight Status as follows: kg/sqmts Below 18.5: Underweight 18.5 - 24.9: Normal 25.0 - 29.9: Overweight 30.0 and Above: Obese
* GENERAL EXAMINATION		
MENTAL / EMOTIONAL STATE	NORMAL	
PHYSICAL ATTITUDE	NORMAL	
GENERAL APPEARANCE / NUTRITIONAL STATUS	HEALTHY	
BUILT / SKELETAL FRAMEWORK	AVERAGE	
FACIAL APPEARANCE	NORMAL	
SKIN	NORMAL	
UPPER LIMB	NORMAL	
LOWER LIMB	NORMAL	
NECK	NORMAL	
NECK LYMPHATICS / SALIVARY GLANDS	NOT ENLARGED OR TE	ENDER

NOT ENLARGED

NORMAL



THYROID GLAND

CAROTID PULSATION





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TEMPERATURE	NORMAL	
PULSE	REGULAR, ALL PERIPH	HERAL PULSES WELL FELT, NO CAROTID BRUIT
RESPIRATORY RATE	NORMAL	
* CARDIOVASCULAR SYSTEM		
BP	130/74 MM HG (SITTING)	mm/Hg
PERICARDIUM	NORMAL	
APEX BEAT	NORMAL	
HEART SOUNDS	NORMAL	
MURMURS	ABSENT	
* RESPIRATORY SYSTEM		
SIZE AND SHAPE OF CHEST	NORMAL	
MOVEMENTS OF CHEST	SYMMETRICAL	
BREATH SOUNDS INTENSITY	NORMAL	
BREATH SOUNDS QUALITY	VESICULAR (NORMAL	)
ADDED SOUNDS	ABSENT	
* PER ABDOMEN		
APPEARANCE	NORMAL	
VENOUS PROMINENCE	ABSENT	
LIVER	NOT PALPABLE	
SPLEEN	NOT PALPABLE	
* CENTRAL NERVOUS SYSTEM		
HIGHER FUNCTIONS	NORMAL	
CRANIAL NERVES	NORMAL	
CEREBELLAR FUNCTIONS	NORMAL	
SENSORY SYSTEM	NORMAL	
MOTOR SYSTEM	NORMAL	
REFLEXES	NORMAL	
* MUSCULOSKELETAL SYSTEM		
SPINE	NORMAL	
JOINTS	NORMAL	
* BASIC EYE EXAMINATION		
CONJUNCTIVA	NORMAL	
EYELIDS	NORMAL	







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Biological Reference Interval



Units

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EYE MOVEMENTS	NORMAL	
CORNEA	NORMAL	
DISTANT VISION RIGHT EYE WITHOUT GLASSES	6/6	
DISTANT VISION LEFT EYE WITHOUT GLASSES	6/18	
NEAR VISION RIGHT EYE WITHOUT GLASSES	N6	
NEAR VISION LEFT EYE WITHOUT GLASSES	N6	
COLOUR VISION	NORMAL	
* BASIC ENT EXAMINATION		
EXTERNAL EAR CANAL	NORMAL	
TYMPANIC MEMBRANE	NORMAL	
NOSE	NO ABNORMALITY DETE	CTED
SINUSES	NORMAL	
THROAT	NO ABNORMALITY DETE	CTED
TONSILS	NOT ENLARGED	
* SUMMARY		
RELEVANT HISTORY	NOT SIGNIFICANT	
RELEVANT GP EXAMINATION FINDINGS	NOT SIGNIFICANT	
RELEVANT LAB INVESTIGATIONS	DYSLIPIDEMIA	
RELEVANT NON PATHOLOGY DIAGNOSTICS	GRADE I FATTY LIVER OI	N USG
REMARKS / RECOMMENDATIONS	PHYSICIAN''S CONSULT	
* FITNESS STATUS		
FITNESS STATUS	FIT WITH MEDICAL ADV	ICE

#### Interpretation(s)

BLOOD COUNTS, EDTA WHOLE BLOOD-

The cell morphology is well preserved for 24hrs. However after 24-48 hrs a progressive increase in MCV and HCT is observed leading to a decrease in MCHC. A direct smear is recommended for an accurate differential count and for examination of RBC morphology. RBC AND PLATELET INDICES-

Mentzer index (MCV/RBC) is an automated cell-counter based calculated screen tool to differentiate cases of Iron deficiency anaemia(>13) from Beta thalassaemia trait (<13) in patients with microcytic anaemia. This needs to be interpreted in line with clinical correlation and suspicion. Estimation of HbA2 remains the gold standard for diagnosing a case of beta thalassaemia trait. WBC DIFFERENTIAL COUNT - NLR-

The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive patients. When age = 49.5 years old and NLR = 3.3, 46.1% COVID-19 patients with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients tend to show mild disease

(Reference to - The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients ; A.-P. Yang, et al.; International Immunopharmacology 84 (2020) 106504 This ratio element is a calculated parameter and out of NABL scope. ERYTHRO SEDIMENTATION RATE, BLOOD-

Erythrocyte sedimentation rate (ESR) is a non - specific phenomena and is clinically useful in the diagnosis and monitoring of disorders associated with an increased production of acute phase reactants. The ESR is increased in pregnancy from about the 3rd month and returns to normal by the 4th week post partum. ESR is influenced by age, sex, menstrual cycle and drugs (eg. corticosteroids, contraceptives). It is especially low (0 -1mm) in polycythaemia, hypofibrinogenemia or congestive cardiac failure

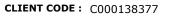


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and when there are abnormalities of the red cells such as poikilocytosis, spherocytosis or sickle cells.

Reference

1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition

Paediatric reference intervals. AACC Press, 7th edition. Edited by S. Soldin
 The reference for the adult reference range is "Practical Haematology by Dacie and Lewis, 10th Edition"

GLUCOSE, FASTING, PLASMA-ADA 2021 guidelines for adults, after 8 hrs fasting is as follows: Pre-diabetics: 100 - 125 mg/dL

Diabetic: > or = 126 mg/dL GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD-

Glycosylated hemoglobin (GHb) has been firmly established as an index of long-term blood glucose concentrations and as a measure of the risk for the development of complications in patients with diabetes mellitus. Formation of GHb is essentially irreversible, and the concentration in the blood depends on both the life span of the red blood cell (average 120 days) and the blood glucose concentration. Because the rate of formation of GHb is directly proportional to the concentration of glucose in the blood, the GHb concentration represents the integrated values for glucose over the preceding 6-8 weeks. Any condition that alters the life span of the red blood cells has the potential to alter the GHb level. Samples from patients with hemolytic anemias will exhibit decreased

glycated hemoglobin values due to the shortened life span of the red cells. This effect will depend upon the severity of the anemia. Samples from patients with polycythemia or post-splenectomy may exhibit increased glycated hemoglobin values due to a somewhat longer life span of the red cells. Glycosylated hemoglobins results from patients with HbSS, HbCC, and HbSC and HbD must be interpreted with caution, given the pathological processes, including anemia,

increased red cell furnover, transfusion requirements, that adversely impact HbA1c as a marker of long-term glycemic control. In these conditions, alternative forms of testing such as glycated serum protein (fructosamine) should be considered.

"Targets should be individualized; More or less stringent glycemic goals may be appropriate for individual patients. Goals should be individualized based on duration of diabetes, age/life expectancy, comorbid conditions, known CVD or advanced microvascular complications, hypoglycemia unawareness, and individual patient considerations."

#### References

Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, edited by Carl A Burtis, Edward R.Ashwood, David E Bruns, 4th Edition, Elsevier publication, 2006, 879-884.

2. Forsham PH. Diabetes Mellitus: A rational plan for management. Postgrad Med 1982, 71,139-154.

3. Mayer TK, Freedman ZR: Protein glycosylation in Diabetes Mellitus: A review of laboratory measurements and their clinical utility. Clin Chim Acta 1983, 127, 147-184. GLUCOSE, POST-PRANDIAL, PLASMA-ADA Guidelines for 2hr post prandial glucose levels is only after ingestion of 75grams of glucose in 300 ml water, over a period of 5 minutes.

CORONARY RISK PROFILE (LIPID PROFILE), SERUM.

Serum cholesterol is a blood test that can provide valuable information for the risk of coronary artery disease This test can help determine your risk of the build up of plaques in your arteries that can lead to narrowed or blocked arteries throughout your body (atherosclerosis). High cholesterol levels usually don't cause any signs or symptoms, so a cholesterol test is an important tool. High cholesterol levels often are a significant risk factor for heart disease and important for diagnosis of hyperlipoproteinemia, atherosclerosis, hepatic and thyroid diseases.

Serum Triglyceride are a type of fat in the blood. When you eat, your body converts any calories it doesn't need into triglycerides, which are stored in fat cells. High triglyceride levels are associated with several factors, including being overweight, eating too many sweets or drinking too much alcohol, smoking, being sedentary, or having diabetes with elevated blood sugar levels. Analysis has proven useful in the diagnosis and treatment of patients with diabetes mellitus, nephrosis, liver obstruction, other diseases involving lipid metabolism, and various endocrine disorders. In conjunction with high density lipoprotein and total serum cholesterol, a triglyceride determination provides valuable information for the assessment of coronary heart disease risk. It is done in fasting state.

High-density lipoprotein (HDL) cholesterol. This is sometimes called the ""good" cholesterol because it helps carry away LDL cholesterol, thus keeping arteries open and blood flowing more freely. HDL cholesterol is inversely related to the risk for cardiovascular disease. It increases following regular exercise, moderate alcohol consumption and with oral estrogen therapy. Decreased levels are associated with obesity, stress, cigarette smoking and diabetes mellitus.

SERUM LDL The small dense LDL test can be used to determine cardiovascular risk in individuals with metabolic syndrome or established/progressing coronary artery disease, individuals with triglyceride levels between 70 and 140 mg/dL, as well as individuals with a diet high in trans-fat or carbohydrates. Elevated sdLDL levels are associated with metabolic syndrome and an 'atherogenic lipoprotein profile', and are a strong, independent predictor of cardiovascular disease. Elevated levels of LDL arise from multiple sources. A major factor is sedentary lifestyle with a diet high in saturated fat. Insulin-resistance and pre-diabetes have also been implicated, as has genetic predisposition. Measurement of sdLDL allows the clinician to get a more comprehensive picture of lipid risk factors and tailor treatment accordingly. Reducing LDL levels will reduce the risk of CVD and MI.

Non HDL Cholesterol - Adult treatment panel ATP III suggested the addition of Non-HDL Cholesterol as an indicator of all atherogenic lipoproteins (mainly LDL and VLDL). NICE guidelines recommend Non-HDL Cholesterol measurement before initiating lipid lowering therapy. It has also been shown to be a better marker of risk in both primary and secondary prevention studies.

#### Recommendations:

Results of Lipids should always be interpreted in conjunction with the patient's medical history, clinical presentation and other findings.

NON FASTING LIPID PROFILE includes Total Cholesterol, HDL Cholesterol and calculated non-HDL Cholesterol. It does not include triglycerides and may be best used in patients for whom fasting is difficult. LIVER FUNCTION PROFILE, SERUM-













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CLIENT CODE : C000138377

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LIVER FUNCTION PROFILE

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice. Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin is of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors &Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin. AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured

AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver,liver cancer,kidney failure,hemolytic anemia,pancreatitis,hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of hepatitis,obstruction of bile ducts, cirrhosis.

AL<sup>P</sup> is a protein found in almost all body tissues. Tissues with higher amounts of ALP include the liver, bile ducts and bone. Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget's disease, Rickets, Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia, Malnutrition, Protein deficiency, Wilson's disease. GGT is an enzyme found in cell membranes of many tissues mainly in the liver, kidney and pancreas. It is also found in other tissues including intestine, spleen, heart, brain and seminal vesicles. The highest concentration is in the kidney, but the liver is considered the source of normal enzyme activity. Serum GGT has been widely used as an index of liver dysfunction. Elevated serum GGT activity can be found in diseases of the liver, biliary system and pancreas. Conditions that increase serum GGT are obstructive liver disease, high alcohol consumption and use of enzyme-inducing drugs etc. Serum total protein, also known as total protein, is a biochemical test for measuring the total amount of protein in serum. Protein in the plasma is made up of albumin and globulin. Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstrom's disease. Lower-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstrom's disease. Lower-than-normal levels may be due to: Chronic inflammation or infection and use of plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance, malnutrition and wasting etc SERUM BLOOD UREA NITROGEN-

Causes of Increased levels

Pre renal

High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal
 Renal Failure

Renal Fai
 Post Renal

Malignancy, Nephrolithiasis, Prostatism

Causes of decreased levels

Liver disease

• SIADH.

CREATININE, SERUM-Higher than normal level may be due to:

Blockage in the urinary tract

• Kidney problems, such as kidney damage or failure, infection, or reduced blood flow

Loss of body fluid (dehydration)

- Muscle problems, such as breakdown of muscle fibers
- Problems during pregnancy, such as seizures (eclampsia)), or high blood pressure caused by pregnancy (preeclampsia)

Lower than normal level may be due to:

Myasthenia Gravis
Muscular dystrophy URIC ACID, SERUM-Causes of Increased levels Dietary
High Protein Intake.
Prolonged Fasting,
Rapid weight loss. Gout Lesch nyhan syndrome. Type 2 DM.

Metabolic syndrome.

Causes of decreased levels • Low Zinc Intake

Low Zinc II
 OCP's

Multiple Sclerosis

Nutritional tips to manage increased Uric acid levels













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Test Report Status <u>Final</u>	Results	Biological Reference Interval Units
REFERRING DOCTOR : SELF		CLIENT PATIENT ID :
DRAWN : 09/04/2022 09:59	RECEIVED : 09/04/2022 10:01	REPORTED : 11/04/2022 09:10
ACCESSION NO : 0063VD002016	AGE : 32 Years SEX : Male	
PATIENT NAME : ROSHAN KUMA	R YADAV	PATIENT ID : ROSHM05029063

Drink plenty of fluids

Limit animal proteins

 High Fibre foods Vit C Intake

• Antioxidant rich foods TOTAL PROTEIN, SERUM-

Serum total protein, also known as total protein, is a biochemical test for measuring the total amount of protein in serum. Protein in the plasma is made up of albumin and globulin

Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstrom's disease Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc. ALBUMIN, SERUM-

Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance, malnutrition and wasting etc. ELECTROLYTES (NA/K/CL), SERUM-

Sodium levels are Increased in dehydration, cushing's syndrome, aldosteronism & decreased in Addison's disease, hypopituitarism, liver disease. Hypokalemia (low K) is common in vomiting, diarrhea, alcoholism, folic acid deficiency and primary aldosteronism. Hyperkalemia may be seen in end-stage renal failure, hemolysis, trauma, Addison's disease, metabolic acidosis, acute starvation, debug didation, and with rapid K infusion.Chloride is increased in dehydration, renal tubular acidosis (hyperchloremia metabolic acidosis), acute renal failure, metabolic acidosis associated with prolonged diarrhea and loss of sodium bicarbonate, diabetes insipidus, adrenocortical hyperfuction, salicylate intoxication and with excessive infusion of isotonic saline or extremely high dietary intake of salt.Chloride is decreased in overhydration, chronic respiratory acidosis, salt-losing nephritis, metabolic alkalosis, congestive heart failure, Addisonian crisis, certain types of metabolic acidosis, persistent gastric secretion and prolonged vomiting,

URINALYSIS-Routine urine analysis assists in screening and diagnosis of various metabolic, urological, kidney and liver disorders

Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever

Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain medications.

Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine. Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.

Blood: Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders. Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most common cause is bacterial urinary tract infection.

Nitrite: Many bacteria give positive results when their number is high. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection. pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/ alkalosis or ingestion of certain type of food

can affect the pH of urine.

Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus.

Bilirubin: In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine. Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in cases of hemolytic anemia

#### THYROID PANEL, SERUM-

Trilodot PANEL, SEROM-Trilodothyronine T3, is a thyroid hormone. It affects almost every physiological process in the body, including growth, development, metabolism, body temperature, and heart rate. Production of T3 and its prohormone thyroxine (T4) is activated by thyroid-stimulating hormone (TSH), which is released from the pituitary gland. Elevated concentrations of T3, and T4 in the blood inhibit the production of TSH. Thyroxine T4, Thyroxine's principal function is to stimulate the metabolism of all cells and tissues in the body. Excessive secretion of thyroxine in the body is

hyperthyroidism, and deficient secretion is called hypothyroidism. Most of the thyroid hormone in blood is bound to transport proteins. Only a very small fraction of the

circulating hormone is free and biologically active. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low. or Total T4, TSH & Total T3

are the guidelines f	or Pregnancy relate	d reference ranges for Total		
TOTAL T4	TSH3G	TOTAL T3		
(µg/dL)	(µIU/mL)	(ng/dL)		
6.6 - 12.4	0.1 - 2.5	81 - 190		
6.6 - 15.5	0.2 - 3.0	100 - 260		
6.6 - 15.5	0.3 - 3.0	100 - 260		
Below mentioned are the guidelines for age related reference ranges for T3 and T4.				
	T4			
	ΤΟΤΑL T4 (μg/dL) 6.6 - 12.4 6.6 - 15.5 6.6 - 15.5	$\begin{array}{ll} (\mu g/dL) & (\mu IU/mL) \\ 6.6 - 12.4 & 0.1 - 2.5 \\ 6.6 - 15.5 & 0.2 - 3.0 \\ 6.6 - 15.5 & 0.3 - 3.0 \\ are the guidelines for age related refer$		

(ng/dL) (µg/dL) New Born: 75 - 260 1-3 day: 8.2 - 19.9 1 Week: 6.0 - 15.9

NOTE: TSH concentrations in apparently normal euthyroid subjects are known to be highly skewed, with a strong tailed distribution towards higher TSH values. This is well documented in the pediatric population including the infant age group. Kindly note: Method specific reference ranges are appearing on the report under biological reference range.













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Reference:

1. Burtis C.A., Ashwood E. R. Bruns D.E. Teitz textbook of Clinical Chemistry and Molecular Diagnostics, 4th Edition.

Gowenlock A.H. Varley's Practical Clinical Biochemistry, 6th Edition.
 Behrman R.E. Kilegman R.M., Jenson H. B. Nelson Text Book of Pediatrics, 17th Edition

3. Benrman R.E. Kilegman R.M., Jenson H. B. Nelson Text Book of Pediatrics, 17 STOOL: OVA & PARASITE-

Acute infective diarrhoea and gastroenteritis (diarrhoea with vomiting) are major causes of ill health and premature death in developing countries. Loss of water and electrolytes from the body can lead to severe dehydration which if untreated, can be rapidly fatal in young children, especially that are malnourished, hypoglycaemic, and generally in poor health.

Laboratory diagnosis of parasitic infection is mainly based on microscopic examination and the gross examination of the stool specimen. Depending on the nature of the parasite, the microscopic observations include the identification of cysts, ova, trophozoites, larvae or portions of adult structure. The two classes of parasites that cause human infection are the Protozoa and Helminths. The protozoan infections include amoebiasis mainly caused by Entamoeba histolytica and giardiasis caused by Giardia lamblia. The common helminthic parasites are Trichuris trichiura, Ascaris lumbricoides, Strongyloides stercoralis, Taenia sp. etc ABO GROUP & RH TYPE, EDTA WHOLE BLOOD-

Blood group is identified by antigens and antibodies present in the blood. Antigens are protein molecules found on the surface of red blood cells. Antibodies are found in plasma. To determine blood group, red cells are mixed with different antibody solutions to give A,B,O or AB.

Disclaimer: "Please note, as the results of previous ABO and Rh group (Blood Group) for pregnant women are not available, please check with the patient records for availability of the same."

The test is performed by both forward as well as reverse grouping methods.

Conclusion on an individual's Fitness, which is commented upon mainly for Pre employment cases, is based on multi factorial findings and does not depend on any one single parameter. The final Fitness assigned to a candidate will depend on the Physician's findings and overall judgement on a case to case basis, details of the candidate's past and personal history; as well as the comprehensiveness of the diagnostic panel which has been requested for .These are then further correlated with details of the job under consideration to eventually fit the right man to the right job.

Basis the above, SRL classifies a candidate's Fitness Status into one of the following categories:

Fit (As per requested panel of tests) - SRL Limited gives the individual a clean chit to join the organization, on the basis of the General Physical Examination and the specific test panel requested for.
Fit (with medical advice) (As per requested panel of tests) - This indicates that although the candidate can be declared as FIT to join the job, minimal problems have been

• Fit (with medical advice) (As per requested panel of tests) - This indicates that although the candidate can be declared as FIT to join the job, minimal problems have been detected during the Pre- employment examination. Examples of conditions which could fall in this category could be cases of mild reversible medical abnormalities such as height weight disproportions, borderline raised Blood Pressure readings, mildly raised Blood sugar and Blood Lipid levels, Hematuria, etc. Most of these relate to sedentary lifestyles and come under the broad category of life style disorders. The idea is to caution an individual to bring about certain lifestyle changes as well as seek a Physician's consultation and counseling in order to bring back to normal the mildly deranged parameters. For all purposes the individual is FIT to join the job.

onsultation and counseling in order to bring back to normal the mildly deranged parameters. For all purposes the individual is FIT to join the job.
 Fitness on Hold (Temporary Unfit) (As per requested panel of tests) - Candidate's reports are kept on hold when either the diagnostic tests or the physical findings reveal the presence of a medical condition which warrants further tests, counseling and/or specialist opinion, on the basis of which a candidate can either be placed into Fit, Fit (With Medical Advice), or Unfit category. Conditions which may fall into this category could be high blood pressure, abnormal ECG, heart murmurs, abnormal vision, grossly elevated blood sugars, etc.

• Unfit (As per requested panel of tests) - An unfit report by SRL Limited clearly indicates that the individual is not suitable for the respective job profile e.g. total color blindness in color related jobs.







ROSHAN KUMAR YADAV

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# MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

\* ULTRASOUND ABDOMEN ULTRASOUND ABDOMEN GRADE I FATTY LIVER.

> \*\*End Of Report\*\* Please visit www.srlworld.com for related Test Information for this accession TEST MARKED WITH '\*' ARE OUTSIDE THE NABL ACCREDITED SCOPE OF THE LABORATORY.

Dr. Kamlesh I Prajapati Consultant Pathologist

 It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
 All Tests are performed and reported as per the turnaround time stated in the SRL Directory of services (DOS).

3. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.

4. A requested test might not be performed if:

a. Specimen received is insufficient or inappropriate

specimen quality is unsatisfactory

b. Incorrect specimen type

c. Request for testing is withdrawn by the ordering doctor or patient

d. There is a discrepancy between the label on the specimen container and the name on the test requisition form

 The results of a laboratory test are dependent on the quality of the sample as well as the assay technology.
 Result delays could be because of uncontrolled circumstances. e.g. assay run failure.

7. Tests parameters marked by asterisks are excluded from the "scope" of NABL accredited tests. (If laboratory is accredited).

8. Laboratory results should be correlated with clinical information to determine Final diagnosis.

9. Test results are not valid for Medico- legal purposes.

10. In case of queries or unexpected test results please call at SRL customer care (Toll free: 1800-222-000). Post proper investigation repeat analysis may be carried out.

SRL Limited Fortis Hospital, Sector 62, Phase VIII, Mohali 160062



