

**DIAGNOSTIC REPORT**



**CODE :** C000138377

Cert. No. MC-3146

**NAME AND ADDRESS :**  
SANGITA PURBEY

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

**PATIENT NAME : SANGITA PURBEY**

**PATIENT ID : SANGF09018963**

ACCESSION NO : **0063VJ000311** AGE : 33 Years SEX : Female

ABHA NO :

DRAWN : 08/10/2022 09:57:59 RECEIVED : 08/10/2022 09:59:15

REPORTED : 10/10/2022 11:33:21

**REFERRING DOCTOR :** DR. BANK OF BARODA

CLIENT PATIENT ID :

Test Report Status	Final	Results	Biological Reference Interval	Units
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**MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE**

**BLOOD COUNTS,EDTA WHOLE BLOOD**

HEMOGLOBIN	<b>11.9</b>	<b>Low</b>	12.0 - 15.0	g/dL
METHOD : SPECTROPHOTOMETRY				
RED BLOOD CELL COUNT	4.24		3.8 - 4.8	mil/ $\mu$ L
METHOD : IMPEDANCE				
WHITE BLOOD CELL COUNT	8.43		4.0 - 10.0	thou/ $\mu$ L
METHOD : IMPEDANCE				
PLATELET COUNT	188		150 - 410	thou/ $\mu$ L
METHOD : IMPEDANCE				

**RBC AND PLATELET INDICES**

HEMATOCRIT	37.0		36 - 46	%
METHOD : CALCULATED				
MEAN CORPUSCULAR VOL	87.3		83 - 101	fL
METHOD : DERIVED FROM IMPEDANCE MEASURE				
MEAN CORPUSCULAR HGB.	28.2		27.0 - 32.0	pg
METHOD : CALCULATED PARAMETER				
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	32.3		31.5 - 34.5	g/dL
METHOD : CALCULATED PARAMETER				
MENTZER INDEX	20.6			
RED CELL DISTRIBUTION WIDTH	<b>14.4</b>	<b>High</b>	11.6 - 14.0	%
METHOD : DERIVED FROM IMPEDANCE MEASURE				
MEAN PLATELET VOLUME	<b>12.6</b>	<b>High</b>	6.8 - 10.9	fL
METHOD : DERIVED FROM IMPEDANCE MEASURE				

**WBC DIFFERENTIAL COUNT - NLR**

SEGMENTED NEUTROPHILS	52		40 - 80	%
METHOD : DHSS FLOWCYTOMETRY				
ABSOLUTE NEUTROPHIL COUNT	4.38		2.0 - 7.0	thou/ $\mu$ L
METHOD : DHSS FLOWCYTOMETRY, CALCULATED				
LYMPHOCYTES	37		20 - 40	%
METHOD : DHSS FLOWCYTOMETRY				
ABSOLUTE LYMPHOCYTE COUNT	<b>3.09</b>	<b>High</b>	1 - 3	thou/ $\mu$ L
METHOD : DHSS FLOWCYTOMETRY, CALCULATED				
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.4			
METHOD : CALCULATED				



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EOSINOPHILS		04	1 - 6	%
METHOD : DHSS FLOWCYTOMETRY				
ABSOLUTE EOSINOPHIL COUNT		0.34	0.02 - 0.50	thou/ $\mu$ L
METHOD : DHSS FLOWCYTOMETRY, CALCULATED				
MONOCYTES		7	2 - 10	%
METHOD : DHSS FLOWCYTOMETRY				
ABSOLUTE MONOCYTE COUNT		0.62	0.20 - 1.00	thou/ $\mu$ L
METHOD : DHSS FLOWCYTOMETRY, CALCULATED				
BASOPHILS		0	0 - 2	%
METHOD : IMPEDANCE				
ABSOLUTE BASOPHIL COUNT		0.03	0.02 - 0.10	thou/ $\mu$ L
METHOD : DHSS FLOWCYTOMETRY, CALCULATED				
<b>ERYTHRO SEDIMENTATION RATE, BLOOD</b>				
SEDIMENTATION RATE (ESR)		17	0 - 20	mm at 1 hr
METHOD : AUTOMATED (PHOTOMETRICAL CAPILLARY STOPPED FLOW KINETIC ANALYSIS)				
<b>GLUCOSE, FASTING, PLASMA</b>				
GLUCOSE, FASTING, PLASMA		92	Normal 75 - 99 Pre-diabetics: 100 - 125 Diabetic: > or = 126	mg/dL
METHOD : SPECTROPHOTOMETRY HEXOKINASE				
<b>GLYCOSYLATED HEMOGLOBIN, EDTA WHOLE BLOOD</b>				
GLYCOSYLATED HEMOGLOBIN (HBA1C)		5.4	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 ADA Target: 7.0 Action suggested: > 8.0	%
METHOD : CAPILLARY ELECTROPHORESIS				
MEAN PLASMA GLUCOSE		108.3	< 116	mg/dL
METHOD : CALCULATED PARAMETER				



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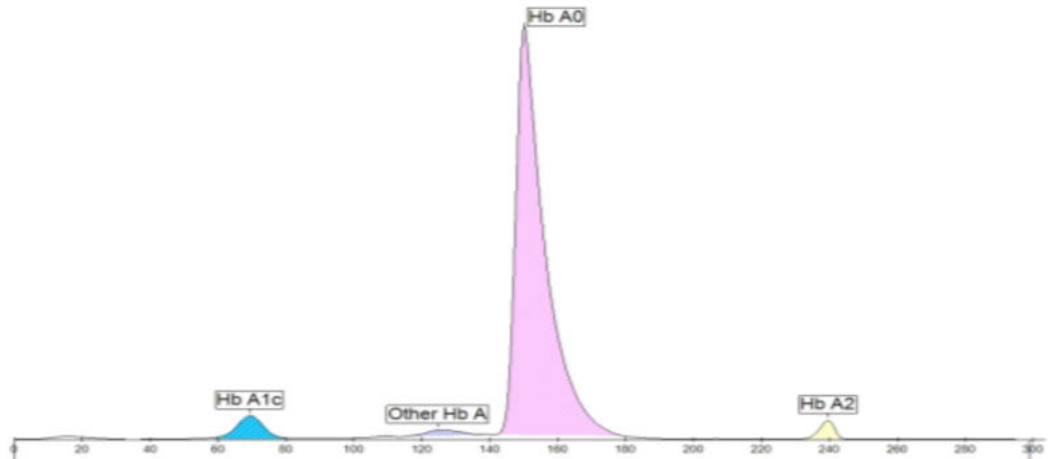
PLOT NO.31,ELECTRONIC CITY,SECTOR 18, GURUGRAM

ID : 914420305

Sample Date: 10/8/2022

Name :

Sample num.: 285



**A1c Haemoglobin Electrophoresis**

Fractions	%	mmol/mol	Cal. %
Hb A1c	-	36	5.4
Other Hb A	1.8		
Hb A0	91.2		
Hb A2	2.2		

HbA1c % cal : 5.4 %

Comments :



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**GLUCOSE, POST-PRANDIAL, PLASMA**

GLUCOSE, POST-PRANDIAL, PLASMA	87	70 - 139	mg/dL
METHOD : SPECTROPHOTOMETRY, HEXOKINASE			

**CORONARY RISK PROFILE, SERUM**

CHOLESTEROL	165	Desirable cholesterol level < 200 Borderline high cholesterol 200 - 239 High cholesterol > / = 240	mg/dL
METHOD : ENZYMATIC COLORIMETRIC ASSAY			

TRIGLYCERIDES	108	Normal: < 150 Borderline high: 150 - 199 High: 200 - 499 Very High: > / = 500	mg/dL
METHOD : ENZYMATIC COLORIMETRIC ASSAY			

HDL CHOLESTEROL	39	<b>Low</b> Low HDL Cholesterol <40 High HDL Cholesterol > / = 60	mg/dL
METHOD : HOMOGENEOUS ENZYMATIC COLORIMETRIC ASSAY			

CHOLESTEROL LDL	114	<b>High</b> Adult levels: Optimal < 100 Near optimal/above optimal: 100-129 Borderline high : 130-159 High : 160-189 Very high : = 190	mg/dL
METHOD : HOMOGENEOUS ENZYMATIC COLORIMETRIC ASSAY			

NON HDL CHOLESTEROL	126	Desirable : < 130 Above Desirable : 130 -159 Borderline High : 160 - 189 High : 190 - 219 Very high : > / = 220	mg/dL
METHOD : CALCULATED PARAMETER			

CHOL/HDL RATIO	4.0	Low Risk : 3.3 - 4.4 Average Risk : 4.5 - 7.0 Moderate Risk : 7.1 - 11.0 High Risk : > 11.0	
METHOD : CALCULATED PARAMETER			

LDL/HDL RATIO	2.9	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk	
METHOD : CALCULATED PARAMETER			



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METHOD : CALCULATED PARAMETER				
VERY LOW DENSITY LIPOPROTEIN	21.6	< OR = 30.0		mg/dL
METHOD : CALCULATED PARAMETER				
<b>LIVER FUNCTION PROFILE, SERUM</b>				
BILIRUBIN, TOTAL	0.3	Upto 1.2		mg/dL
METHOD : COLORIMETRIC DIAZO METHOD				
BILIRUBIN, DIRECT	0.1	< 0.30		mg/dL
METHOD : COLORIMETRIC DIAZO METHOD				
BILIRUBIN, INDIRECT	0.2	0.1 - 1.0		mg/dL
METHOD : CALCULATED PARAMETER				
TOTAL PROTEIN	7.7	6.0 - 8.0		g/dL
METHOD : SPECTROPHOTOMETRY, BIURET				
ALBUMIN	4.7	3.97 - 4.94		g/dL
METHOD : SPECTROPHOTOMETRY, BROMOCRESOL GREEN(BCG) - DYE BINDING				
GLOBULIN	3.0	2.0 - 3.5		g/dL
METHOD : CALCULATED PARAMETER				
ALBUMIN/GLOBULIN RATIO	1.6	1.0 - 2.1		RATIO
METHOD : CALCULATED PARAMETER				
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	25	< OR = 35		U/L
METHOD : SPECTROPHOTOMETRY, WITH PYRIDOXAL PHOSPHATE ACTIVATION-IFCC				
ALANINE AMINOTRANSFERASE (ALT/SGPT)	30	< OR = 35		U/L
METHOD : SPECTROPHOTOMETRY, WITH PYRIDOXAL PHOSPHATE ACTIVATION-IFCC				
ALKALINE PHOSPHATASE	79	35 - 104		U/L
METHOD : SPECTROPHOTOMETRY, PNPP, AMP BUFFER - IFCC				
GAMMA GLUTAMYL TRANSFERASE (GGT)	18	0 - 40		U/L
METHOD : ENZYMATIC COLORIMETRIC ASSAY STANDARDIZED AGAINST IFCC / SZASZ				
LACTATE DEHYDROGENASE	134	125 - 220		U/L
METHOD : SPECTROPHOTOMETRY, LACTATE TO PYRUVATE - UV-IFCC				
<b>SERUM BLOOD UREA NITROGEN</b>				
BLOOD UREA NITROGEN	8.3	6 - 20		mg/dL
METHOD : SPECTROPHOTOMETRY, KINETIC TEST WITH UREASE AND GLUTAMATE DEHYDROGENASE				
<b>CREATININE, SERUM</b>				
CREATININE	0.63	0.5 - 0.9		mg/dL
METHOD : SPECTROPHOTOMETRIC, JAFFE'S KINETICS				
<b>BUN/CREAT RATIO</b>				



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BUN/CREAT RATIO	13.30	8.0 - 15.0	
METHOD : CALCULATED PARAMETER			
<b>URIC ACID, SERUM</b>			
URIC ACID	4.8	2.4 - 5.7	mg/dL
METHOD : SPECTROPHOTOMETRY, URICASE			
<b>TOTAL PROTEIN, SERUM</b>			
TOTAL PROTEIN	7.7	6.0 - 8.0	g/dL
METHOD : SPECTROPHOTOMETRY, BIURET			
<b>ALBUMIN, SERUM</b>			
ALBUMIN	4.7	3.97 - 4.94	g/dL
METHOD : SPECTROPHOTOMETRY, BROMOCRESOL GREEN(BCG) - DYE BINDING			
<b>GLOBULIN</b>			
GLOBULIN	3.0	2.0 - 3.5	g/dL
METHOD : CALCULATED PARAMETER			
<b>ELECTROLYTES (NA/K/CL), SERUM</b>			
SODIUM	137	136 - 145	mmol/L
METHOD : ISE INDIRECT			
POTASSIUM	4.3	3.5 - 5.1	mmol/L
METHOD : ISE INDIRECT			
CHLORIDE	103	98 - 107	mmol/L
METHOD : ISE INDIRECT			
<b>PHYSICAL EXAMINATION, URINE</b>			
COLOR	PALE YELLOW		
APPEARANCE	CLEAR		
SPECIFIC GRAVITY	<=1.005	1.003 - 1.035	

**Comments**

NOTE :MICROSCOPIC EXAMINATION OF URINE IS PERFORMED ON CENTRIFUGED URINARY SEDIMENT.  
IN NORMAL URINE SAMPLES CAST AND CRYSTALS ARE NOT DETECTED.

**CHEMICAL EXAMINATION, URINE**

PH	5.5	4.7 - 7.5
PROTEIN	NOT DETECTED	NOT DETECTED
GLUCOSE	NOT DETECTED	NOT DETECTED
KETONES	NOT DETECTED	NOT DETECTED



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BLOOD	NOT DETECTED	NOT DETECTED		
BILIRUBIN	NOT DETECTED	NOT DETECTED		
UROBILINOGEN	NORMAL	NORMAL		
NITRITE	NOT DETECTED	NOT DETECTED		
LEUKOCYTE ESTERASE	<b>DETECTED (FEW)</b>	NOT DETECTED		

**MICROSCOPIC EXAMINATION, URINE**

PUS CELL (WBC'S)	3-5	0-5	/HPF
EPITHELIAL CELLS	3-5	0-5	/HPF
ERYTHROCYTES (RBC'S)	NOT DETECTED	NOT DETECTED	/HPF
CASTS	NOT DETECTED		
CRYSTALS	NOT DETECTED		
BACTERIA	NOT DETECTED	NOT DETECTED	

METHOD : DIP STICK/MICRO SCOPY/REFLECTANCE SPECTROPHOTOMETRY

**THYROID PANEL, SERUM**

T3	140.0	80 - 200	ng/dL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			
T4	8.10	5.1 - 14.1	µg/dL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			
TSH 3RD GENERATION	3.000	0.27 - 4.2	µIU/mL
METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			

**PAPANICOLAOU SMEAR**



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SPECIMEN TYPE

Serial no : FC/17790/2022

CLASSIFICATION  
Bethesda 2014

SPECIMEN SITE  
Cervix

SPECIMEN TYPE  
Conventional PAP smear - Cervix  
Received two unstained smears in a slide mailer labelled with two identifiers.

Processing and evaluation - Manual

SPECIMEN ADEQUACY  
Satisfactory for evaluation  
Endocervical component /Transformation zone component - Present

GENERAL CATEGORIZATION  
Negative for intraepithelial lesion or malignancy

FINDINGS  
Superficial and intermediate squamous epithelial cells along with metaplastic epithelial cells seen in background of mild acute inflammation.

INTERPRETATION/RESULTS  
Negative for intraepithelial lesion or malignancy

NON - NEOPLASTIC FINDINGS  
Reactive cellular changes associated with: Inflammation

DISCLAIMER  
Gynaecological cytology is a screening procedure subject to both false negative and false positive results. It is most reliable when a satisfactory sample is obtained on a regular and repetitive basis. Results must be interpreted in context of the historic and current clinical information. Corroboration of cytopathologic findings with colposcopic/ local examination and ancillary findings is recommended.

Note - This case has been reviewed by Dr. ASHWINI N.S (MBBS, MD (Pathology))

STOOL: OVA & PARASITE



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**REMARK**

SAMPLE NOT RECEIVED

METHOD : MICROSCOPIC EXAMINATION

**ABO GROUP & RH TYPE, EDTA WHOLE BLOOD**

**ABO GROUP**

A

METHOD : HEMAGGLUTINATION REACTION ON SOLID PHASE

**RH TYPE**

RH+

METHOD : HEMAGGLUTINATION REACTION ON SOLID PHASE

**\* XRAY-CHEST**

**IMPRESSION**

NORMAL

**TMT OR ECHO**

**TMT OR ECHO**

TMT DONE

**ECG**

**ECG**

WITHIN NORMAL LIMITS

**\* MEDICAL HISTORY**

**RELEVANT PRESENT HISTORY**

NOT SIGNIFICANT

**RELEVANT PAST HISTORY**

H/O GALL BLADDER REMOVAL SURGERY 5 YRS BACK.

**RELEVANT PERSONAL HISTORY**

MARRIED,1 KID,NON VEG

**RELEVANT FAMILY HISTORY**

FATHER IS DIABETIC & HYPERTENSIVE.

**OCCUPATIONAL HISTORY**

NOT SIGNIFICANT

**HISTORY OF MEDICATIONS**

NOT SIGNIFICANT

**\* ANTHROPOMETRIC DATA & BMI**

**HEIGHT IN METERS**

1.56

mts

**WEIGHT IN KGS.**

69

Kgs

**BMI**

28

**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



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SKIN		NORMAL		
UPPER LIMB		NORMAL		
LOWER LIMB		NORMAL		
NECK		NORMAL		
NECK LYMPHATICS / SALIVARY GLANDS		NOT ENLARGED OR TENDER		
THYROID GLAND		NOT ENLARGED		
CAROTID PULSATION		NORMAL		
TEMPERATURE		NORMAL		
PULSE		REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID BRUIT		
RESPIRATORY RATE		NORMAL		
<b>* CARDIOVASCULAR SYSTEM</b>				
BP		120/80 MM HG (SUPINE)		mm/Hg
PERICARDIUM		NORMAL		
APEX BEAT		NORMAL		
HEART SOUNDS		NORMAL		
MURMURS		ABSENT		
<b>* RESPIRATORY SYSTEM</b>				
SIZE AND SHAPE OF CHEST		NORMAL		
MOVEMENTS OF CHEST		SYMMETRICAL		
BREATH SOUNDS INTENSITY		NORMAL		
BREATH SOUNDS QUALITY		VESICULAR (NORMAL)		
ADDED SOUNDS		ABSENT		
<b>* PER ABDOMEN</b>				
APPEARANCE		NORMAL		
VENOUS PROMINENCE		ABSENT		
LIVER		NOT PALPABLE		
SPLEEN		NOT PALPABLE		
<b>* CENTRAL NERVOUS SYSTEM</b>				
HIGHER FUNCTIONS		NORMAL		
CRANIAL NERVES		NORMAL		
CEREBELLAR FUNCTIONS		NORMAL		
SENSORY SYSTEM		NORMAL		



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**DIAGNOSTIC REPORT**



Patient Ref. No. 6300000575912



CODE : C000138377

Cert. No. MC-3146

NAME AND ADDRESS :  
SANGITA PURBEY

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

PATIENT NAME : SANGITA PURBEY

PATIENT ID : SANGF09018963

ACCESSION NO : 0063VJ000311 AGE : 33 Years SEX : Female

ABHA NO :

DRAWN : 08/10/2022 09:57:59

RECEIVED : 08/10/2022 09:59:15

REPORTED : 10/10/2022 11:33:21

REFERRING DOCTOR : DR. BANK OF BARODA

CLIENT PATIENT ID :

Test Report Status	Final	Results	Biological Reference Interval	Units
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MOTOR SYSTEM NORMAL

REFLEXES NORMAL

**\* MUSCULOSKELETAL SYSTEM**

SPINE NORMAL

JOINTS NORMAL

**\* BASIC EYE EXAMINATION**

CONJUNCTIVA NORMAL

EYELIDS NORMAL

EYE MOVEMENTS NORMAL

CORNEA NORMAL

DISTANT VISION RIGHT EYE WITHOUT GLASSES 6/6

DISTANT VISION LEFT EYE WITHOUT GLASSES 6/6

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 DETECTED

SINUSES NORMAL

THROAT NO ABNORMALITY DETECTED

TONSILS NOT ENLARGED

**\* SUMMARY**

RELEVANT HISTORY NOT SIGNIFICANT

RELEVANT GP EXAMINATION FINDINGS NOT SIGNIFICANT

RELEVANT LAB INVESTIGATIONS WITHIN NORMAL LIMITS

RELEVANT NON PATHOLOGY DIAGNOSTICS NO ABNORMALITIES DETECTED

REMARKS / RECOMMENDATIONS NORMAL

**\* FITNESS STATUS**

FITNESS STATUS FIT (AS PER REQUESTED PANEL OF TESTS)



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**MEDI WHEEL FULL BODY HEALTH CHECKUP BELOW 40FEMALE****\* ULTRASOUND ABDOMEN****ULTRASOUND ABDOMEN**

NO ABNORMALITIES DETECTED

**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 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
2. Paediatric reference intervals. AACC Press, 7th edition. Edited by S. Soldin
3. 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 glycosylated 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 glycosylated 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 turnover, transfusion requirements, that adversely impact HbA1c as a marker of long-term glycemic control. In these conditions, alternative forms of testing such as glycosylated 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**

1. 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.

**LIVER FUNCTION PROFILE, SERUM-**

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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 result 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 when there is some kind 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 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 hepatocellular injury, to determine liver health. AST levels increase during acute hepatitis, sometimes due to a viral infection, ischemia to the liver, chronic hepatitis, obstruction of bile ducts, cirrhosis.

ALP 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: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc. 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

**SERUM BLOOD UREA NITROGEN-**

Causes of Increased levels

Pre renal

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

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
- OCP's
- Multiple Sclerosis



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**DIAGNOSTIC REPORT**



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Nutritional tips to manage increased Uric acid levels

- 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, dehydration, 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 hyperfunction, 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,

**MICROSCOPIC EXAMINATION, URINE-**

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-**

Triiodothyronine 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.

Below mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3

Levels in	TOTAL T4 (µg/dL)	TSH3G (µIU/mL)	TOTAL T3 (ng/dL)
Pregnancy			
First Trimester	6.6 - 12.4	0.1 - 2.5	81 - 190
2nd Trimester	6.6 - 15.5	0.2 - 3.0	100 - 260
3rd Trimester	6.6 - 15.5	0.3 - 3.0	100 - 260

Below mentioned are the guidelines for age related reference ranges for T3 and T4.

	T3 (ng/dL)	T4 (µg/dL)
New Born:	75 - 260	1-3 day: 8.2 - 19.9
		1 Week: 6.0 - 15.9



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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.

## Reference:

1. Burtis C.A., Ashwood E. R. Bruns D.E. Teitz textbook of Clinical Chemistry and Molecular Diagnostics, 4th Edition.
2. Gowenlock A.H. Varley's Practical Clinical Biochemistry, 6th Edition.
3. Behrman R.E. Kilegman R.M., Jenson H. B. Nelson Text Book of Pediatrics, 17th Edition

## STOOL: OVA &amp; 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 &amp; 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.

## MEDICAL

HISTORY-\*\*\*\*\*  
THIS REPORT CARRIES THE SIGNATURE OF OUR LABORATORY DIRECTOR. THIS IS AN INVIOABLE FEATURE OF OUR LAB MANAGEMENT SOFTWARE. HOWEVER, ALL EXAMINATIONS AND INVESTIGATIONS HAVE BEEN CONDUCTED BY OUR PANEL OF DOCTORS.

\*\*\*\*\*  
FITNESS STATUS-

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 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.
- 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.

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

Please visit [www.srlworld.com](http://www.srlworld.com) for related Test Information for this accession  
TEST MARKED WITH '\*' ARE OUTSIDE THE NABL ACCREDITED SCOPE OF THE LABORATORY.



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Dr. Kamlesh I Prajapati  
Consultant Pathologist**CONDITIONS OF LABORATORY TESTING & REPORTING**

1. It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
2. All tests are performed and reported as per the turnaround time stated in the SRL Directory of Services.
3. Result delays could occur due to unforeseen circumstances such as non-availability of kits / equipment breakdown / natural calamities / technical downtime or any other unforeseen event.
4. A requested test might not be performed if:
  - i. Specimen received is insufficient or inappropriate
  - ii. Specimen quality is unsatisfactory
  - iii. Incorrect specimen type
  - iv. Discrepancy between identification on specimen container label and test requisition form
5. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
6. Laboratory results should not be interpreted in isolation; it must be correlated with clinical information and be interpreted by registered medical practitioners only to determine final diagnosis.
7. Test results may vary based on time of collection, physiological condition of the patient, current medication or nutritional and dietary changes. Please consult your doctor or call us for any clarification.
8. Test results cannot be used for Medico legal purposes.
9. In case of queries please call customer care (91115 91115) within 48 hours of the report.

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

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