



Certificate No.: MC-5200

Shalby Hospital (A Unit of Shalby Limited) Near Navyug College, Rander Road, Adajan, Surat, Gujarat, India.  
Tel.: 0261 7190000 | Ext.: 851 | Mo.: 9512036046 | Email : pathology.surat@shalby.in | Web : www.shalby.org

PID : SUR0000368791 OP-003

REPORT STATUS : Interim



Patient Name : <b>Mr Manish Maroo</b>	/	Registered On : 28-Aug-2024 10:47 AM
Lab ID : 408902196		Collected On : 28-Aug-2024 10:45 AM
Gender/Age : Male / 32 Years	DOB : 21-Oct-1991	Received On : 28-Aug-2024 10:50 AM
Ref. By : Health Check Up Shalby		Sample Type : EDTA Whole Blood

Parameter	Result	Unit	Biological Ref. Interval	
<b><u>BLOOD COUNT AND INDICIES</u></b>				
HAEMOGLOBIN	<i>Colorimetric Non Cyanide</i>	15.5	g/dL	13.0 - 17.0
RBC COUNT	<i>Electrical Impedance</i>	5.15	mill/cmm	4.5 - 5.5
HCT	<i>Calculated</i>	46.7	%	40 - 50
MCV	<i>Calculated based on the RBC histogram</i>	90.7	fL	83 - 101
MCH	<i>Calculated</i>	30.1	pg	27 - 32
MCHC	<i>Calculated</i>	33.2	g/dL	31.5 - 34.5
RDW	<i>Calculated</i>	<b>12.1</b>	%	13.3 - 18.3

**TOTAL LEUCOCYTE COUNT**

Total WBC Count	<i>Electrical Impedance</i>	4970	cells/cmm	4000 - 10000
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**DIFFERENTIAL LEUCOCYTE COUNT (Manual by Microscopy)**

NEUTROPHILS	<i>Flow Cytometry</i>	50	%	40 - 80
LYMPHOCYTES	<i>Flow Cytometry</i>	<b>42</b>	%	20 - 40
EOSINOPHILS	<i>Flow Cytometry</i>	1	%	1 - 6
MONOCYTES	<i>Flow Cytometry</i>	7	%	2 - 10
BASOPHIL	<i>Flow Cytometry</i>	0	%	0 - 2

**PLATELET INDICES**

PLATELET COUNT	<i>Electrical Impedance</i>	322000	/cmm	150000 - 410000
MPV	<i>Calculated based on PLT Histogram</i>	9.6	fL	7.5 - 12.0

**PERIPHERAL SMEAR EXAMINATION**

RBCs	Normochromic and Normocytic.
WBCs	Total and differential leucocyte counts are within normal limit
PLATELETs	Adequate in number and normal in morphology.
MALARIAL PARASITE	Malarial parasites are not seen on smear examination.

EDTA Whole Blood - Tests done on Automated Five Part Cell Counter. (WBC, RBC, MCV & Platelet count by classical impedance method, Hb by cyanide-free colorimetric method, WBC differential by Chemical dye, Flowcytometry, Semi-conductive Laser scatter Method, independent Basophil channel & other parameters calculated). All Haemograms are reviewed & confirmed microscopically.

Reference Interval: Dacie and Lewis practical haematology 11th edition.

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*Dr Pankaj Agrawal*

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**Dr Pankaj Agrawal**

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M.B., D.C.P  
Consulting Pathologist

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Ref. By : Health Check Up Shalby

Sample Type : EDTA Whole Blood

Parameter	Result	Unit	Biological Ref. Interval
<b>BLOOD GROUP</b>			
(Tube agglutination: Forward & reverse)			
ABO Type	"B"		
RH Type	NEGATIVE		

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<b>ESR 1st hour</b>	7	mm in 1 hour	0 - 15
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*Modified Westergren Method***HBA1C**

<b>HbA1c - Glycated Haemoglobin</b>	5.3	%	Non-diabetic: $\leq 5.6$ Pre-diabetic: 5.7-6.4 Diabetic: $\geq 6.5$ Therapeutic goals for glycemic control Age > 19 years Goal of therapy: < 7.0 Action suggested: > 8.0 Age < 19 years Goal of therapy: <7.5
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*Boronate Affinity Assay*

<b>Estimated Average Glucose (eAG) (mg/dL)</b>	105	mg/dL
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*Calculated*

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 Lab ID : 408902196 Collected On : 28-Aug-2024 10:45 AM  
 Gender/Age : Male / 32 Years DOB : 21-Oct-1991 Received On : 28-Aug-2024 11:31 AM  
 Ref. By : Health Check Up Shalby Sample Type : Fluoride F, Urine (PP),  
 Fluoride PP, Urine (F)

Parameter	Result	Unit	Biological Ref. Interval
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**PLASMA GLUCOSE LEVEL****FASTING PLASMA GLUCOSE**

<b>Plasma Glucose (F)</b>	85	mg/dL	74 - 106
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GOD/POD (Glucose Oxidase/Peroxidase), Colorimetric

<b>Urine Sugar (F)</b>	ABSENT	mg/dL	Absent
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Glucose-oxidase/oxidase reaction

**POST PRANDIAL PLASMA GLUCOSE**

<b>Plasma Glucose (PP)</b>	83	mg/dL	Normal: 100-140 Impaired: 140 -199 Diabetic :=>200
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GOD/POD (Glucose Oxidase/Peroxidase), Colorimetric

<b>Urine Sugar (PP)</b>	ABSENT	mg/dL	Absent
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Glucose-oxidase/oxidase reaction

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Gender/Age : Male / 32 Years	DOB : 21-Oct-1991	Received On : 28-Aug-2024 10:50 AM
Ref. By : Health Check Up Shalby		Sample Type : Serum

Parameter	Result	Unit	Biological Ref. Interval
<b>LIPID PROFILE</b>			
<b>LIPID PROFILE</b>			
<b>Cholesterol</b> <i>Cholesterol Esterase, Oxidase, Peroxidase</i>	173	mg/dL	Desirable: <200 Borderline High: 200 - 239 High >=240
<b>SERUM TRIGLYCERIDE</b> <i>Lipase/GK/GPO/POD</i>	174	mg/dL	Normal : <150 Borderline High : 150-199 High : 200-499 Very High : > 500
<b>HDL CHOLESTEROL DIRECT</b> <i>Phosphotungstic Acid/Mgcl2 - Enzymatic</i>	37	mg/dL	Major risk factor for heart disease : < 40 Negative risk factor for heart disease : >= 60
<b>Non HDL Cholesterol</b> <i>Calculated</i>	136	mg/dL	Optimal : <130 Desirable : 130-159 Borderline high : 159-189 High : 189-220 Very High : >=220
<b>LDL Cholesterol</b> <i>Calculated</i>	101	mg/dL	Optimal: <100 Near to above Optimal: 100 - 129  Borderline High: 130 - 159 High: 160 - 189 Very High: > 190
<b>VLDL</b> <i>Calculated</i>	35	mg/dL	6 - 38
<b>LDL/dHDL</b> <i>Calculated</i>	2.7		2.5 - 3.5
<b>Chol/dHDL</b> <i>Calculated</i>	4.7	Ratio	3.5 - 5.0

Note: Reference interval as per National Cholesterol Education Programme (NCEP) Adult Treatment Panel III Report. VLDL, CHOL/dHDL RATIO, LDL/dHDL RATIO, LDL Cholesterol, Non HDL Cholesterol are calculated parameters. Estimation of LDL by direct method is recommended when TG > 400 mg/dL.

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DOB : 21-Oct-1991

Received On : 28-Aug-2024 10:50 AM

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Sample Type : Serum

Parameter	Result	Unit	Biological Ref. Interval
<b>RENAL FUNCTION TEST</b>			
<b>NABL Accredited Parameters</b>			
<b>Urea Nitrogen (BUN)</b>	6	mg/dL	9 - 20
<i>Urease, colorimetric</i>			
<b>UREA</b>	13	mg/dL	19 - 43
<i>Calculated</i>			
<b>Creatinine</b>	0.68	mg/dL	0.66 - 1.25
<i>Enzymatic - Creatinine amidohydrolase</i>			
<b>S. URIC ACID</b>	5.1	mg/dL	3.5 - 8.5
<i>Uricase/Peroxidase, Colorimetric</i>			
<b>Calcium</b>	9.5	mg/dL	8.4 - 10.2
<i>Arsenazo III dye</i>			
<b>Sodium</b>	142	mmol/L	137 - 145
<i>Direct Ion Selective Electrode</i>			
<b>S. POTASSIUM</b>	4.4	mmol/L	3.5 - 5.1
<i>Direct Ion Selective Electrode</i>			
<b>Chloride</b>	102	mmol/L	98 - 107

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Parameter	Result	Unit	Biological Ref. Interval
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**BIOCHEMISTRY****Phosphorus (Not in NABL Scope)**

3.7

mg/dL

2.5 - 4.5

*Phosphomolybdate reduction (PMA Phenol)*

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Gender/Age : Male / 32 Years	DOB : 21-Oct-1991	Received On : 28-Aug-2024 10:58 AM
Ref. By : Health Check Up Shalby		Sample Type : Urine

**URINE EXAMINATION**

Parameter	Result	Unit	Biological Ref. Interval
<b>Physical Examination</b>			
Colour	Pale Yellow		Pale yellow
Transparency	Clear		Clear
<b>Chemical Examination</b>			
Glucose	<i>Glucose-oxidase/peroxidase reaction</i>	Nil	Negative
Bilirubin	<i>Azo coupling Reaction with diazonium</i>	Negative	Negative
Ketone	<i>Sodium Nitroprusside reation</i>	Nil	Negative
Specific Gravity	<i>Refractometric Method - Bromthymol blue</i>	1.010	S.G. value 1.001 - 1.035
Blood	<i>Peroxidase like activity of hemoglobin</i>	NIL	Negative
pH	<i>Double Indicator principle</i>	5.5	PH value 4.6 - 8.0
Protein	<i>Protein Error of Indicator Principle</i>	Negative	Negative
Urobilinogen	<i>Modified Ehrlich reaction</i>	Normal	EU/dL Upto 1.0 mg/dL (EU/dL)
Nitrite	<i>Diazotization reaction of nitrite with an aromatic amine</i>	Negative	Negative
Leucocyte	<i>Leucocyte Esterase Test</i>	Negative	Negative
<b>Microscopic Examination</b>			
Pus cells	0-2/hpf	/hpf	0-5/hpf
Red blood cells	Nil	/hpf	NIL/hpf
Epithelial cells	0-2/hpf	/hpf	NA
Crystals	Nil		Nil
Cast	Nil		Nil
Bacteria	Nil		Nil
Amorphous	Nil		Nil
Yeast	Nil		Nil
Others	Nil		Nil

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Parameter	Result	Unit	Biological Ref. Interval
<b><u>Liver Function Test</u></b>			
<b>Liver Function Test</b>			
<b>SGPT (ALTV)</b> <i>Multi Point Rate with P-5-P</i>	33	U/L	21 - 72
<b>SGOT (AST)</b> <i>Multi Point Rate with P-5-P</i>	29	U/L	17 - 59
<b>Alkaline Phosphatase</b> <i>PNPP, AMP Buffer</i>	67	U/L	20-50 yrs : 53 - 128 4-19 yr : 54 - 369 >=51 yr : 56 - 119
<b>GGT</b> <i>L-gamma-glutamyl-4-nitroanalide/glycylglycine Kinetic</i>	20	U/L	15 - 73
<b>S. PROTEIN</b> <i>Biuret (Alkaline cupric sulfate), End Point</i>	7.7	g/dL	6.3 - 8.2
<b>Albumin</b> <i>Bromocresol Green (BCG), Colorimetric</i>	4.6	g/dL	3.5 - 5.0
<b>S. GLOBULIN</b> <i>Calculated</i>	3.1	g/dL	2.3 - 3.6
<b>A/G Ratio</b> <i>Calculated</i>	1.5	Ratio	1.0 - 2.3
<b>Bilirubin Total</b> <i>Azobilirubin/Dyphylline/Diazonium Salt</i>	0.6	mg/dL	0-1 day (premature) 1.0 - 8.0 0-1 day (full term) : 2.0 - 6.0 1-2 day (premature) : 6.0 - 12.0 1-2 day (full term) : 6.0 - 10.0 3-5 day (premature) : 10.0 - 14.0 3-5 day (full term) : 4.0 - 8.0  Adult : 0.2 - 1.3
<b>Bilirubin Unconjugated</b> <i>End-point Colorimetric (Dual wavelength spectrophotometric)</i>	0.6	mg/dL	Unconjugated bilirubin Adults: 0.0-1.1 Neonates: 0.6-10.5
<b>Bilirubin Direct</b> <i>Calculated</i>	0.0	mg/dL	Conjugated bilirubin and Delta bilirubin (Bilirubin covalently bound to albumin) 0.0-0.4

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