



SURAT LAB : 3rd Floor, Vanita Vishram Building, Above Bank of Baroda, Athwa Circle, SURAT - 395 001
 Ph. : 0261-3099099 | Mo : 09714971114 | Email : unipathlab.surat@gmail.com | Website : www.unipath.in
 CIN : U85195GJ2009PLC057059



TEST REPORT

Reg. No. : 40300710932 **Reg. Date** : 09-Mar-2024 10:35 **Ref.No** : **Approved On** : 09-Mar-2024 12:07
Name : BARUN KUMAR **Collected On** : 09-Mar-2024 10:35
Age : 39 Years **Gender**: Male **Pass. No.** : **Dispatch At** :
Ref. By : **Tele No.** :
Location : SPECTRA DIAGNOSTIC @ LP SAVANI ROAD

Test Name	Results	Units	Bio. Ref. Interval
THYROID FUNCTION TEST			
T3 (triiodothyronine), Total <i>Method:CLIA</i>	1.22	ng/mL	0.6 - 1.81
T4 (Thyroxine), Total <i>Method:CLIA</i>	12.3	µg/dL	4.5 - 12.6
TSH (Ultra Sensitive) <i>Method:CLIA</i>	4.224	µIU/mL	0.55 - 4.78
Sample Type:Serum			

Comments:

Thyroid stimulating hormone (TSH) is synthesized and secreted by the anterior pituitary in response to a negative feedback mechanism involving concentrations of FT3 (free T3) and FT4 (free T4). Additionally, the hypothalamic tripeptide, thyrotropin-releasing hormone (TRH), directly stimulates TSH production. TSH stimulates thyroid cell production and hypertrophy, also stimulate the thyroid gland to synthesize and secrete T3 and T4. Quantification of TSH is significant to differentiate primary (thyroid) from secondary (pituitary) and tertiary (hypothalamus) hypothyroidism. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low.

TSH levels During Pregnancy :

- First Trimester : 0.1 to 2.5 µIU/mL
- Second Trimester : 0.2 to 3.0 µIU/mL
- Third trimester : 0.3 to 3.0 µIU/mL

Reference : Carl A.Burtis,Edward R.Ashwood,David E.Bruns. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics. 5th Eddition. Philadelphia: WB Saunders,2012:2170

----- End Of Report -----

Test done from collected sample. This is an electronically authenticated report.

Dr. Dhaval Bamanian
 Pathologist
 G-16880

Generated On : 09-Mar-2024 12:12

Regd. Office: 5th Floor, Doctor House, Nr. Parimal Garden, Ahmedabad-380006, Gujarat.
 Outsource Lab (USLL-HO):PASL House, Beside Sahjanand College, Opposite Kamdhenu Complex, Panjarapole, Ambawadi, Ahmedabad-380015, Gujarat.



Name: BARUN KUMAR	Ward: OPD
Lab ID: 00000106	Registration on: 09/03/2024 09:17:00
Age & Sex: 39 Year Male	Reported on: 12:55:02
Reference: VELOCITY HOSPITAL	Sample Type: BLOOD & URINE

CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	13.51	g/dL	13.5 - 17.5
Total RBC	4.47 L	mill./cm	4.50 - 5.90
Total WBC	6780	/cmm	4000 - 11000
Platelet Count	167000	/cmm	150000 - 450000
HCT	42.0	%	36.0 - 48.0
MCV	94.0	fL	80.0 - 100.0
MCH	30.2	pg	27.0 - 32.0
MCHC	32.2	g/dL	31.5 - 36.0
DIFFERENTIAL COUNT			
Neutrophils	61	%	40 - 70
Lymphocytes	34	%	20 - 40
Eosinophils	02	%	02-05
Monocytes	03	%	01-07
Basophils	00	%	00 - 02
Band Cells	00	%	0.0 - 6.0
ABSOLUTE DIFFERENTIAL COUNT			
Neutrophils	4136	/cumm	1800 - 7700
Lymphocytes	2305	/cumm	800 - 4800
Eosinophils	136	/cumm	20 - 500
Monocytes	203	/cumm	200 - 1000
Basophils	0	/cumm	0 - 100
GLR / NLR (Neutrophil/Lymphocyte Ratio)	1.8		
MENTZER INDEX			
RDW-CV	13.0	%	11.1 - 14.1
RDW-SD	48.9	fl	
MPV	11.6	fl	
PCT	0.19	%	

DR. TEJAL BHATT
 MD. PATHOLOGIST





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PDW 19.1 %

PERIPHERAL SM EAR EXAMINATION

RBC Morphology
WBC Morphology
Platelets in Smear

Normochromic and normocytic.
Appear normal, Immature cells are not seen .
Adequate.

Malarial Parasites

Not Detected.

ESR

AFTER 1 HOUR

18 H mm/hr

0.0 - 15.0

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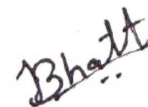




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BLOOD GROUP

<u>Test</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
Blood Group	"O"		
Rh Factor	POSITIVE		



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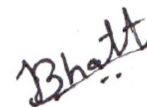




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BLOOD GLUCOSE TEST

<u>Test</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
Sample	FLOURIDE PLASMA		
<u>FASTING (FBS)</u>			
Blood Sugar-F	99.7	mg/dL	70.00-110.00
Urine Sugar-R	Absent		



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Name: **BARUN KUMAR**

Ward: OPD

Lab ID: **00000106**

Registration on: 09/03/2024 09:17:00

Age & Sex: **39 Year | Male**

Reported on: 12:55:02

Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD & URINE**

HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
HbA1c	5.87	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	121.8	mg/dL	70.0 - 140.0

Importance of HbA1c - Glycated Hb. in Diabetes Mellitus

- HbA1c, also known as Glycated Hemoglobin is the most important test for the assessment of long term blood glucose control (also called glycemic control)
- HbA1c reflects mean blood glucose concentration over past 6-8 weeks and provides a much better indication of long term glycemic control than blood glucose determination
- HbA1c is formed by non-enzymatic reaction between glucose and Hb. , this reaction is irreversible and therefore remains unaffected by short term fluctuations in blood glucose levels.
- Long term complications of diabetes such as retinopathy-eye complications, nephropathy-kidney complications and neuropathy-nerve complications, are potentially serious and can lead to blindness, kidney failure etc.
- Glycemic control monitored by HbA1c measurement using HPLC method-(Gold Standard) is considered most important. (Ref. National Glycohemoglobin Standardization Program -NGSP).

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LIPID PROFILE

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fasting Blood Serum		
Cholesterol	161.9	mg/dL	<200 Desirable 200-229 Borderline >240 High
Triglyceride	258.9 H	mg/dL	<150 Normal 150-199 Borderline 200-499 High >=500 Very High
HDL Cholesterol	39.1 L	mg/dL	40-60
VLDL	51.78 H	mg/dL	0.00 - 30.00
LDL Cholesterol	71.02	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	1.82		1.0 - 3.4
Cholesterol / HDL Chol. Ratio	4.1 H		0 - 3.5
Total Lipid	688.7	mg/dl	400.0 - 1000.0

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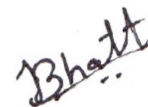
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RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.98	mg/dL	0.5-1.30
Bl. Urea	22.0	mg/dL	10.0 - 40.0
BUN	10.3	mg/dl	6.0 - 22.0
Uric Acid	5.64	mg/dL	3.5 - 7.2

PROTEINS

Total Protein	6.5	g/dL	6.0 - 8.0
Albumin	3.89	g/dL	3.50 - 5.50
Globulin	2.6	g/dL	2.0 - 4.0
A/G Ratio	1.5		



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LIVER FUNCTION TEST

<u>Test</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
<u>BILIRUBIN</u>			
Total Bilirubin	0.5	mg/dL	0.00 - 1.20
Direct Bilirubin	0.2	mg/dL	0.00 - 0.40
Indirect Bilirubin	0.30	mg/dL	0.00 - 1.00
SGPT(ALT)	37.7	U/L	0.0 - 40.0
SGOT (AST)	21.5	U/L	0.0 - 46.0
Alkaline Phosphatase	230.5	U/L	64.0 - 306.0
<u>PROTEINS</u>			
Total Protein	6.5	g/dL	6.0 - 8.0
Albumin	3.98	g/dL	3.50 - 5.50
Globulin	2.0	g/dL	2.0 - 4.0
A/G Ratio	2.0		

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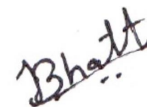


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URINE ANALYSIS

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fresh Urine		
<u>PHYSICAL EXAMINATION</u>			
Quantity	10.0	mL	
Colour	Pale-Yellow		
Appearance	Clear		Clear
pH	5.0		
Specific Gravity	1.025		
Sediments	Absent		Absent
<u>CHEMICAL EXAMINATION</u>			
Protein (Albumin)	Absent		Absent
Sugar	Absent		Absent
Bile Salts	Absent		Absent
Bile Pigment	Absent		Absent
Ketone	Absent		Absent
Occult Blood	Absent		Absent
Nitrite	Absent		Absent
Leukocyte Esterase	Absent		Absent
Urobilinogen	Normal		Normal
<u>MICROSCOPIC EXAMINATION</u>			
Pus Cells	Occasional	/hpf	Absent
Red Blood Cells	Absent	/hpf	Absent
Epithelial Cells	2-3	/hpf	Absent
Crystals	Absent		Absent
Amorphous material	Absent		Absent
Casts	Absent		Absent
Yeast	Absent		Absent
Bacteria	Absent		Absent

--- End of Report ---



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