



**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.** : 40500720281 **Reg. Date** : 18-May-2024 12:54 **Ref.No** : **Approved On** : 18-May-2024 13:49  
**Name** : SONALI MISHRA **Collected On** : 18-May-2024 12:54  
**Age** : 36 Years **Gender**: Female **Pass. No.** : **Dispatch At** :  
**Ref. By** : **Tele No.** :  
**Location** : SPECTRA DIAGNOSTIC @ LP SAVANI ROAD

Test Name	Results	Units	Bio. Ref. Interval
<b>THYROID FUNCTION TEST</b>			
T3 (triiodothyronine), Total <i>Method:CLIA</i>	1.31	ng/mL	0.6 - 1.81
T4 (Thyroxine), Total <i>Method:CLIA</i>	12.0	µg/dL	4.5 - 12.6
TSH (Ultra Sensitive) <i>Method:CLIA</i>	H <b>12.981</b>	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 Edition. Philadelphia: WB Saunders,2012:2170

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

This is an electronically authenticated report. "Please verify the authenticity of this report by scanning the QR code to ensure data integrity."

Test done from collected sample.

**Dr. Brijesha Patel**  
 M.D. Pathology  
 Reg. No.: -G-32437

**Generated On** : 18-May-2024 13:55

Regd. Office: Unipath Specialty Laboratory Limited - 5th Floor, Dr.House, Nr. Parimal Garden, A'Bad-380006,GJ.Phone:+91-79-49036800,Email:cs@unipath.in  
 Outsource Lab (USLL- HO): Unipath House, B/S Sahjanand College, Panjarapole, Ahmedabad -380015, Gujarat. Phone:+91-79-49006800 |  
 WhatsApp:6356005900 | Email:info@unipath.in | Website: www.unipath.in



Name: <b>SONALI MISHRA</b>	Ward: <b>OPD</b>
Lab ID: <b>00000149</b>	Registration on: <b>18/05/2024 10:09:00</b>
Age & Sex: <b>36 Year   Female</b>	Reported on: <b>10:22:12</b>
Reference: <b>VELOCITY HOSPITAL</b>	Sample Type: <b>BLOOD &amp; URINE</b>

### CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	<b>9.52 L</b>	g/dL	12.0 - 16.0
Total RBC	4.03	mill./cm	4.00 - 5.20
Total WBC	9900	/cmm	4000 - 11000
Platelet Count	275400	/cmm	150000 - 450000
HCT	<b>31.8 L</b>	%	36.0 - 48.0
MCV	<b>78.9 L</b>	fL	80.0 - 100.0
MCH	<b>23.6 L</b>	pg	27.0 - 32.0
MCHC	<b>29.9 L</b>	g/dL	31.5 - 36.0

### DIFFERENTIAL COUNT

Neutrophils	<b>80 H</b>	%	40 - 70
Lymphocytes	<b>16 L</b>	%	20 - 40
Eosinophils	02	%	02-05
Monocytes	02	%	01-07
Basophils	00	%	00 - 02
Band Cells	00	%	0.0 - 6.0

### ABSOLUTE DIFFERENTIAL COUNT

Neutrophils	<b>7920 H</b>	/cumm	2000 - 7000
Lymphocytes	1584	/cumm	1000.0-3000.0
Eosinophils	198	/cumm	20 - 500
Monocytes	<b>198 L</b>	/cumm	200 - 1000
Basophils	0	/cumm	0 - 100

### GLR / NLR

(Neutrophil/Lymphocyte Ratio)

**5.0**

### MENTZER INDEX

**19.6**

RDW-CV	<b>16.5 H</b>	%	11.1 - 14.1
RDW-SD	<b>52.1</b>	fl	
MPV	10.5	fl	
PCT	<b>0.29</b>	%	

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 MD. PATHOLOGIST





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Sample Type: **BLOOD & URINE**

PDW 18.4 %

**PERIPHERAL SM EAR EXAMINATION**

RBC Morphology

**Hypochromia (+), Microcytosis (+), Anisocytosis (+), Poikilocytosis (+),**

WBC Morphology  
Platelets in Smear

**Appear normal, Immature cells are not seen .**  
Adequate.

**Malarial Parasites**

Not Detected.

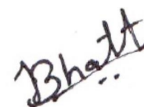
**ESR**

AFTER 1 HOUR

18

mm/hr

0.0 - 20.0



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MD. PATHOLOGIST

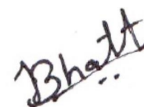




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## BLOOD GROUP

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



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MD. PATHOLOGIST



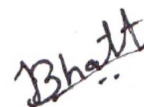


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## BLOOD GLUCOSE TEST

<u>Test</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
Sample	FLOURIDE PLASMA		
<b><u>FASTING (FBS)</u></b>			
Blood Sugar-F	85.62	mg/dL	70.00-110.00



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## HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
<b>HbA1c</b>	5.3	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	105.4	mg/dL	80.0 - 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 amuch 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	148.6	mg/dL	<200 Desirable 200-29 Borderline >240 High
Triglyceride	140.0	mg/dL	<150 Normal 150-199 Borderline 200-499 High >=500 Very High
HDL Cholesterol	53.4	mg/dL	40-60
VLDL	28.00	mg/dL	0.00 - 30.00
LDL Cholesterol	67.20	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	1.26		1.0 - 3.4
Cholesterol / HDL Chol. Ratio	2.8		0 - 3.5
Total Lipid	539.6	mg/dl	400.0 - 1000.0

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## RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.8	mg/dL	0.5-1.30
Bl. Urea	21.0	mg/dL	10.0 - 40.0
BUN	9.8	mg/dl	6.0 - 22.0
Uric Acid	3.88	mg/dL	2.6 - 6.0

### PROTEINS

Total Protein	7.4	g/dL	6.0 - 8.0
Albumin	3.74	g/dL	3.50 - 5.50
Globulin	3.7	g/dL	2.5 - 4.0
A/G Ratio	1.0		

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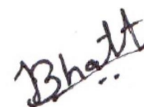


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## LIVER FUNCTION TEST

Test	Observed Value	Unit	Biological Reference Interval
<b><u>BILIRUBIN</u></b>			
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	0.10 - 1.00
SGPT(ALT)	20.34	U/L	0.0 - 40.0
SGOT (AST)	22.4	U/L	0.0 - 46.0
Alkaline Phosphatase	201.3	U/L	64-306.0
<b><u>PROTEINS</u></b>			
Total Protein	7.4	g/dL	6.0 - 8.0
Albumin	3.74	g/dL	3.50 - 5.50
Globulin	3.7	g/dL	2.5 - 4.0
A/G Ratio	1.0		
PT.Control	13.2	Seconds	
PT.ISI	1.1		



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## URINE ANALYSIS

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fresh Urine		
<b><u>PHYSICAL EXAMINATION</u></b>			
Quantity	10.0	mL	
Colour	Pale-Yellow		
Appearance	Clear		Clear
pH	6.0		
Specific Gravity	1.020		
Sediments	Absent		Absent
<b><u>CHEMICAL EXAMINATION</u></b>			
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
<b><u>MICROSCOPIC EXAMINATION</u></b>			
Pus Cells	1-2	/hpf	Absent
Red Blood Cells	Absent	/hpf	Absent
Epithelial Cells	7-10	/hpf	Absent
Crystals	Absent		Absent
Amorphous material	Absent		Absent
Casts	Absent		Absent
Yeast	Absent		Absent
Bacteria	Few		Absent

--- End of Report ---

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