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 CIN : U85195GJ2009PLC057059



TEST REPORT

Reg. No. : 31000716754 **Reg. Date** : 14-Oct-2023 13:12 **Ref.No** : **Approved On** : 14-Oct-2023 14:29
Name : MITESH BALKRUSHNA PATEL **Collected On** : 14-Oct-2023 13:13
Age : 35 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) <i>Method:CLIA</i>	1.23	ng/mL	0.6 - 1.81
T4 (Thyroxine) <i>Method:CLIA</i>	9.2	µg/dL	4.5 - 12.6
TSH (ultra sensitive) <i>Method:CLIA</i>	L 0.525	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.

Approved by: Dr. Dhaval Bamania

Pathologist
G-16880

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Name: MITESH BALKRUSHNA PATEL	Ward: OPD
Lab ID: 00000157	Registration on: 14/10/2023 10:34:00
Age & Sex: 35 Year Male	Reported on: 18:02:42
Reference: VELOCITY HOSPITAL	Sample Type: BLOOD ~ URINE

CBC ESR

Test	Observed Value	Unit	Biological Reference Interval
Haemoglobin	15.1	g/dL	13.0 - 17.0
Total RBC	4.96	mill./cm	4.00 - 5.20
Total WBC	6840	/cmm	4000 - 11000
Platelet Count	169600	/cmm	150000 - 450000
HCT	47.0	%	36.0 - 48.0
MCV	94.8	fL	80.0 - 100.0
MCH	30.4	pg	27.0 - 32.0
MCHC	32.1	g/dL	31.5 - 36.0
DIFFERENTIAL COUNT			
Neutrophils	60	%	40 - 70
Lymphocytes	36	%	20 - 40
Eosinophils	02	%	01-05
Monocytes	02	%	01-07
Basophils	00	%	
Band Cells	00	%	0.0 - 6.0
ABSOLUTE DIFFERENTIAL COUNT			
Neutrophils	4104	/cumm	2000 - 7000
Lymphocytes	2462	/cumm	1000 - 3000
Eosinophils	137	/cumm	
Monocytes	137	/cumm	
Basophils	0	/cumm	0 - 100
GLR / NLR (Neutrophil/Lymphocyte Ratio)	1.7		
MENTZER INDEX			
MENTZER INDEX	19.1		
RDW-CV	14.0	%	11.1 - 14.1
RDW-SD	53.1	fl	
MPV	7.2	fl	
PCT	0.12	%	

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 MD. PATHOLOGIST





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PDW 16.8 %

PERIPHERAL SM EAR EXAMINATION

RBC Morphology
WBC Morphology
Platelets in Smear

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

Malarial Parasites

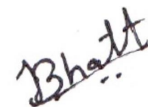
Not Detected.

ESR

AFTER 1 HOUR

20 H mm/hr

0.0 - 15.0



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Reference: VELOCITY HOSPITAL	Sample Type: BLOOD ~ URINE

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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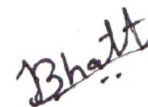




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BLOOD GLUCOSE TEST

<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	92.8	mg/dL	70.00-110.00



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Age & Sex: 35 Year | Male

Reported on: 18:02:43

Reference: VELOCITY HOSPITAL

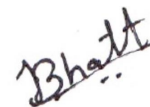
Sample Type: BLOOD ~ URINE

HEMOGLOBIN A1c TEST

Test	Observed Value	Unit	Biological Reference Interval
HbA1c	4.44	%	> 8 : Action Suggested 7-8 : Good control < 7 : Goal 6.2-7 : Near Normal Glycemia < 6.2 : Non-diabetic Level
Mean Blood Glucose	80.7	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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Reference: VELOCITY HOSPITAL	Sample Type: BLOOD ~ URINE

LIPID PROFILE

Test	Observed Value	Unit	Biological Reference Interval
Sample	Fasting Blood Serum		
Cholesterol	224.9 H	mg/dL	<200 Desirable 200-229 Borderline >240 High
Triglyceride	207.1 H	mg/dL	<150 Normal 150-199 Borderline 200-499 High >=500 Very High
HDL Cholesterol	40.4	mg/dL	Male : 35-80 Female : 42-88
VLDL	41.42 H	mg/dL	0.00 - 30.00
LDL Cholesterol	143.08 H	mg/dL	< 130 : Optimal 130 - 159 : Borderline High 160 - 189 : High >= 190 : Very High
LDL Chol. / HDL Chol. Ratio	3.54 H		1.0 - 3.4
Cholesterol / HDL Chol. Ratio	5.6 H		0 - 3.5
Total Lipid	779.9	mg/dl	400.0 - 1000.0

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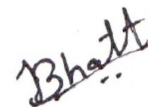
Reference: **VELOCITY HOSPITAL**Sample Type: **BLOOD ~ URINE**

RENAL FUNCTION TEST

Test		Unit	
S. Creatinine	0.99	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	4.20	mg/dL	3.5 - 7.2

PROTEINS

Total Protein	6.5	g/dL	6.0 - 8.0
Albumin	4.14	g/dL	3.50 - 5.50
Globulin	2.4	g/dL	2.0 - 4.0
A/G Ratio	1.7		



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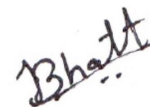
Age & Sex: **35 Year | Male**

Reported on: 18:02:43

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

LIVER FUNCTION TEST

<u>Test</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
<u>BILIRUBIN</u>			
Total Bilirubin	0.4	mg/dL	0.00 - 1.20
Direct Bilirubin	0.2	mg/dL	0.00 - 0.40
Indirect Bilirubin	0.20	mg/dL	0.00 - 1.00
SGPT(ALT)	22.5	U/L	0.0 - 40.0
SGOT (AST)	25.0	U/L	0.0 - 46.0
Alkaline Phosphatase	198.0	U/L	80.0 - 306.0
<u>PROTEINS</u>			
Total Protein	6.5	g/dL	6.0 - 8.0
Albumin	4.14	g/dL	3.50 - 5.50
Globulin	2.4	g/dL	2.0 - 4.0
A/G Ratio	1.7		

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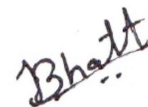


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URINE ANALYSIS

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	6.0		
Specific Gravity	1.010		
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	Occasional	/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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