

LABORATORY TEST REPORT










Name	: Mrs. SONALI		
Sample ID	: A1309213		
Age/Gender	: 30 Years/Female	Reg. No	: 0312501160028
Referred by	: Dr. Nivedita Ashrit MD (Obs/Gyn)	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 16-Jan-2025 01:36 PM
Primary Sample	: Whole Blood	Received On	: 16-Jan-2025 03:53 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 16-Jan-2025 04:09 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report













HAEMATOLOGY

Test Name	Results	Units	Biological Reference Interval
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Complete Blood Picture(CBP)

 Haemoglobin (Hb) (Method: Cymeth Method)	11.5	g/dL	12-15
 Haematocrit (HCT) (Method: Calculated)	39.1	%	40-50
 RBC Count (Method: Cell Impedance)	4.41	10 ¹² /L	3.8-4.8
 MCV (Method: Calculated)	89	fl	81-101
 MCH (Method: Calculated)	26.2	pg	27-32
 MCHC (Method: Calculated)	29.6	g/dL	32.5-34.5
 RDW-CV (Method: Calculated)	12.6	%	11.6-14.0
 Platelet Count (PLT) (Method: Cell Impedance)	280	10 ⁹ /L	150-410
 Total WBC Count (Method: Impedance)	6.7	10 ⁹ /L	4.0-10.0

Differential Leucocyte Count (DC)

 Neutrophils (Method: Cell Impedance)	61	%	40-70
 Lymphocytes (Method: Cell Impedance)	33	%	20-40
 Monocytes (Method: Microscopy)	04	%	2-10
 Eosinophils (Method: Microscopy)	02	%	1-6
 Basophils (Method: Microscopy)	00	%	1-2
 Absolute Neutrophils Count (Method: Impedance)	4.09	10 ⁹ /L	2.0-7.0
 Absolute Lymphocyte Count (Method: Impedance)	2.21	10 ⁹ /L	1.0-3.0
 Absolute Monocyte Count (Method: Calculated)	0.27	10 ⁹ /L	0.2-1.0
 Absolute Eosinophils Count (Method: Calculated)	0.13	10 ⁹ /L	0.02-0.5
 Absolute Basophil ICount (Method: Calculated)	0.00	10 ⁹ /L	0.0-0.3

Morphology
(Method: PAPS Staining) Normocytic normochromic



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Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 16-Jan-2025 01:36 PM
Primary Sample	: Whole Blood	Received On	: 16-Jan-2025 03:53 PM
Sample Tested In	: Serum	Reported On	: 16-Jan-2025 05:29 PM
Client Address	: Kimtee colony , Gokul Nagar, Tarnaka	Report Status	: Final Report



CLINICAL BIOCHEMISTRY

Test Name	Results	Units	Biological Reference Interval
25 - Hydroxy Vitamin D (Method: CLIA)	10.64	ng/mL	<20.0-Deficiency 20.0-30.0-Insufficiency 30.0-100.0-Sufficiency >100.0-Potential Intoxication

Interpretation:

- Vitamin D helps your body absorb calcium and maintain strong bones throughout your entire life. Your body produces vitamin D when the sun's UV rays contact your skin. Other good sources of the vitamin include fish, eggs, and fortified dairy products. It's also available as a dietary supplement.
- Vitamin D must go through several processes in your body before your body can use it. The first transformation occurs in the liver. Here, your body converts vitamin D to a chemical known as 25-hydroxyvitamin D, also called calcidiol.
- The 25-hydroxy vitamin D test is the best way to monitor vitamin D levels. The amount of 25-hydroxyvitamin D in your blood is a good indication of how much vitamin D your body has. The test can determine if your vitamin D levels are too high or too low.
- The test is also known as the 25-OH vitamin D test and the calcidiol 25-hydroxycholecalciferol test. It can be an important indicator of osteoporosis (bone weakness) and rickets (bone malformation).

Those who are at high risk of having low levels of vitamin D include:

- people who don't get much exposure to the sun
- older adults
- people with obesity.
- dietary deficiency

Increased Levels: Vitamin D Intoxication

Method : CLIA

TSH -Thyroid Stimulating Hormone (Method: CLIA)	4.54	μIU/mL	0.35-5.5
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Pregnancy & Cord Blood

TSH (Thyroid Stimulating Hormone (μIU/mL))	
First Trimester	: 0.24-2.99
Second Trimester	: 0.46-2.95
Third Trimester	: 0.43-2.78
Cord Blood	: 2.3-13.2

- 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 interacts with specific cell receptors on the thyroid cell surface and exerts two main actions. The first action is to stimulate cell reproduction and hypertrophy. Secondly, TSH stimulates the thyroid gland to synthesize and secrete T3 and T4
- The ability to quantitate circulating levels of TSH is important in evaluating thyroid function. It is especially useful in the differential diagnosis of 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
- TRH stimulation differentiates secondary and tertiary hypothyroidism by observing the change in patient TSH levels. Typically, the TSH response to TRH stimulation is absent in cases of secondary hypothyroidism, and normal to exaggerated in tertiary hypothyroidism
- Historically, TRH stimulation has been used to confirm primary hyperthyroidism, indicated by elevated T3 and T4 levels and low or undetectable TSH levels. TSH assays with increased sensitivity and specificity provide a primary diagnostic tool to differentiate hyperthyroid from euthyroid patients.



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MD BIOCHEMISTRY

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