










**LABORATORY TEST REPORT**

Name	: Ms. MAHESHWARI		
Sample ID	: B2622316		
Age/Gender	: 35 Years/Female	Reg. No	: 0312504010024
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 01-Apr-2025 12:41 PM
Primary Sample	: Whole Blood	Received On	: 01-Apr-2025 04:43 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 01-Apr-2025 05:31 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)**

 <b>Haemoglobin (Hb)</b> (Method: Cymeth Method)	13.0	g/dL	12-15
 <b>Haematocrit (HCT)</b> (Method: Calculated)	<b>35.8</b>	%	40-50
 <b>RBC Count</b> (Method: Cell Impedance)	<b>3.50</b>	10 <sup>12</sup> /L	3.8-4.8
 <b>MCV</b> (Method: Calculated)	<b>103</b>	fl	81-101
 <b>MCH</b> (Method: Calculated)	<b>37.2</b>	pg	27-32
 <b>MCHC</b> (Method: Calculated)	<b>36.2</b>	g/dL	32.5-34.5
 <b>RDW-CV</b> (Method: Calculated)	<b>14.8</b>	%	11.6-14.0
 <b>Platelet Count (PLT)</b> (Method: Cell Impedance)	194	10 <sup>9</sup> /L	150-410
 <b>Total WBC Count</b> (Method: Impedance)	10.0	10 <sup>9</sup> /L	4.0-10.0

**Differential Leucocyte Count (DC)**

 <b>Neutrophils</b> (Method: Cell Impedance)	60	%	40-70
 <b>Lymphocytes</b> (Method: Cell Impedance)	33	%	20-40
 <b>Monocytes</b> (Method: Microscopy)	06	%	2-10
 <b>Eosinophils</b> (Method: Microscopy)	01	%	1-6
 <b>Basophils</b> (Method: Microscopy)	00	%	1-2
 <b>Absolute Neutrophils Count</b> (Method: Impedance)	6	10 <sup>9</sup> /L	2.0-7.0
 <b>Absolute Lymphocyte Count</b> (Method: Impedance)	<b>3.3</b>	10 <sup>9</sup> /L	1.0-3.0
 <b>Absolute Monocyte Count</b> (Method: Calculated)	0.6	10 <sup>9</sup> /L	0.2-1.0
 <b>Absolute Eosinophils Count</b> (Method: Calculated)	0.1	10 <sup>9</sup> /L	0.02-0.5
 <b>Absolute Basophil ICount</b> (Method: Calculated)	0.00	10 <sup>9</sup> /L	0.0-0.3

**Morphology**

(Method: PAPs Staining)

Normocytic normochromic With Macrocytosis



\*TESTS CONDUCTED @ CENTRAL LAB, HYDERABAD

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 Swarnabala - M  
 DR.SWARNA BALA  
 MD PATHOLOGY

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Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 01-Apr-2025 12:41 PM
Primary Sample	: Whole Blood	Received On	: 01-Apr-2025 04:43 PM
Sample Tested In	: Serum	Reported On	: 01-Apr-2025 07:57 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report


**CLINICAL BIOCHEMISTRY**

Test Name	Results	Units	Biological Reference Interval
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PRL(Prolactin) 11.16 ng/mL Refer Table  
 (Method: CLIA)

**Interpretation:**

Age	Reference Range: Male (ng/mL)	Reference Range: Female(ng/mL)
Puberty Tanner Stage		
1	< 10.0	3.6-12.0
2-3	< 6.1	2.6-18.0
4-5	2.8-11.0	3.2-20.0
Adult	2.1-17.7	Nonpregnant :2.8-29.2 Pregnant :9.7-208.5 Postmenopausal :1.8-20.3

- Prolactin is a 23kD sized hormone produced by the lactotroph cells of the pituitary gland, a grape-sized organ found at the base of the brain. Normally present in low amounts in men and non-pregnant women, prolactin's main role is to promote lactation (breast milk production).
- Breast milk production that is not related to childbirth (galactorrhea)
- Erection problems in men
- Irregular or no menstrual periods (amenorrhea)



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DR. LAVANYA LAGISETTY  
 MD BIOCHEMISTRY

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**CLINICAL BIOCHEMISTRY**

Test Name	Results	Units	Biological Reference Interval
LH (Leutinizng Hormone) (Method: CLIA)	8.97	mIU/mL	Refer Table

**Interpretation:**

Age	Reference Range: Male (mIU/mL)	Reference Range: Female(mIU/mL)
<b>Pre Puberty Child</b>		
2-11 Months	0.02-8.0	0.02-8.0
1-10 Years	0.04-3.6	0.03-3.9
<b>Puberty Tanner Stage</b>		
1	0.04-3.6	0.03-3.0
2	0.26-4.8	0.10-4.1
3	0.56-6.3	0.20-9.1
4-5	0.56-7.8	0.50-15.0
<b>Adult</b>	20-70 years:1.5-9.3 > 70 years:3.1-34.6	
Follicular Phase	----	1.9-12.5
Midcycle Peak	----	8.7-76.3
Luteal Phase	----	0.5-16.9
Postmenopausal	----	15.9-54.0
Pregnant	----	< 0.1-1.5
Contraceptives	----	0.7-5.6

**Increased Values Of LH Seen In:**

- Menopause,ovarian dysgenesis. (Turner syndrome),Testicular dysgenesis (Klinefelter syndrome).
- Precocious puberty

**Decreased Values Of LH Seen In:**

- Pituitary failure. Both LH/ FSH are low.
- hypothalamic failure will also lead to low LH and FSH level.



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**CLINICAL BIOCHEMISTRY**

Test Name	Results	Units	Biological Reference Interval
FSH (Follicle Stimulating Hormone) <small>(Method: CLIA)</small>	6.84	mIU/mL	Refer Table

**Interpretation:**

Age	Reference Range: Male (mIU/mL)	Reference Range: Female(mIU/mL)
<b>Pre Puberty Child</b>		
2-11 Months	0.19-11.3	0.10-11.3
1-10 Years	0.3-4.6	0.68-6.7
<b>Puberty Tanner Stage</b>		
1-2	0.30-4.6	0.68-6.7
3-4	1.24-15.4	1.0-7.4
5	1.53-6.8	1.0-9.2
<b>Adult</b>	1.42-18.4	
Follicular Phase	----	2.5-10.2
Midcycle Peak	----	3.4-33.4
Luteal Phase	----	1.5-9.1
Postmenopausal	----	23.0-116.3
Pregnant	----	< 0.3

The follicle stimulating hormone (FSH) blood test measures the level of FSH in blood. FSH is a hormone released by the pituitary gland, located on the underside of the brain.

**Low FSH levels in women may be present due to:**

- Being very underweight or having had recent rapid weight loss
- Not producing eggs (not ovulating)
- Parts of the brain (the pituitary gland or hypothalamus) not producing normal amounts of some or all of its hormones
- Pregnancy

**High FSH levels in men may mean the testicles are not functioning correctly due to:**

- Advancing age (male menopause)
- Damage to testicles caused by alcohol abuse, chemotherapy, or radiation
- Certain tumors in the pituitary gland

\*\*\* End Of Report \*\*\*



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**CLINICAL BIOCHEMISTRY**

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**Thyroid Profile-I(TFT)**

 <b>T3 (Triiodothyronine)</b> <small>(Method: CLIA)</small>	129.85	ng/dL	70-204
 <b>T4 (Thyroxine)</b> <small>(Method: CLIA)</small>	12.39	µg/dL	3.2-12.6
 <b>TSH -Thyroid Stimulating Hormone</b> <small>(Method: CLIA)</small>	3.20	µIU/mL	0.35-5.5

**Pregnancy & Cord Blood**

<b>T3 (Triiodothyronine):</b>	<b>T4 (Thyroxine)</b>	<b>TSH (Thyroid Stimulating Hormone)</b>
First Trimester : 81-190 ng/dL	15 to 40 weeks:9.1-14.0 µg/dL	First Trimester : 0.24-2.99 µIU/mL
Second&Third Trimester :100-260 ng/dL		Second Trimester: 0.46-2.95 µIU/mL
		Third Trimester : 0.43-2.78 µIU/mL
Cord Blood: 30-70 ng/dL	Cord Blood: 7.4-13.0 µg/dL	Cord Blood: : 2.3-13.2 µIU/mL

**Interpretation:**

- Thyroid gland is a butterfly-shaped endocrine gland that is normally located in the lower front of the neck. The thyroid's job is to make thyroid hormones, which are secreted into the blood and then carried to every tissue in the body. Thyroid hormones help the body use energy, stay warm and keep the brain, heart, muscles, and other organs working as they should.
- Thyroid produces two major hormones: triiodothyronine (T3) and thyroxine (T4). If thyroid gland doesn't produce enough of these hormones, you may experience symptoms such as weight gain, lack of energy, and depression. This condition is called hypothyroidism.
- Thyroid gland produces too many hormones, you may experience weight loss, high levels of anxiety, tremors, and a sense of being on a high. This is called hyperthyroidism.
- 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.

\*\*\* End Of Report \*\*\*



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