

**REPORT**

Name	: Mrs. K SAMYUKTHA	Sample ID	: A0013063
Age/Gender	: 31 Years/Female	Reg. No	: 0312401310026
Referred by	: Dr. Nivedita Ashrit MD (Obs/Gyn)	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 31-Jan-2024 12:29 PM
Primary Sample	: Whole Blood	Received On	: 31-Jan-2024 03:36 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 31-Jan-2024 03:59 PM
Client Address	: Kimtee colony ,Gokul Nagar, Tarnaka	Report Status	: Final Report

**HAEMATOLOGY**

Test Name	Results	Units	Ref. Range	Method
<b>Complete Blood Picture(CBP)</b>				
Haemoglobin (Hb)	12.4	g/dL	12-15	Cynmeth Method
Haematocrit (HCT)	<b>38.1</b>	%	40-50	Calculated
RBC Count	<b>4.45</b>	10 <sup>12</sup> /L	4.5-5.5	Cell Impedence
MCV	86	fl	81-101	Calculated
MCH	28.0	pg	27-32	Calculated
MCHC	32.7	g/dL	32.5-34.5	Calculated
RDW-CV	14.0	%	11.6-14.0	Calculated
Platelet Count (PLT)	298	10 <sup>9</sup> /L	150-410	Cell Impedence
Total WBC Count	8.5	10 <sup>9</sup> /L	4.0-10.0	Impedence
<b>Differential Leucocyte Count (DC)</b>				
Neutrophils	70	%	40-70	Cell Impedence
Lymphocytes	22	%	20-40	Cell Impedence
Monocytes	05	%	2-10	Microscopy
Eosinophils	03	%	1-6	Microscopy
Basophils	0	%	1-2	Microscopy
Absolute Neutrophils Count	5.95	10 <sup>9</sup> /L	2.0-7.0	Impedence
Absolute Lymphocyte Count	1.87	10 <sup>9</sup> /L	1.0-3.0	Impedence
Absolute Monocyte Count	0.43	10 <sup>9</sup> /L	0.2-1.0	Calculated
Absolute Eosinophils Count	0.26	10 <sup>9</sup> /L	0.02-0.5	Calculated
Absolute Basophil ICount	0.00	10 <sup>9</sup> /L	0.0-0.3	Calculated
Morphology	Normocytic normochromic blood picture.			PAPs Staining

Result rechecked and verified for abnormal cases

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

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Swarnabala - M  
DR.SWARNA BALA  
MD PATHOLOGY

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Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 31-Jan-2024 12:29 PM
Primary Sample	: Whole Blood	Received On	: 31-Jan-2024 03:36 PM
Sample Tested In	: Serum	Reported On	: 31-Jan-2024 04:31 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

Test Name	Results	Units	Ref. Range	Method
<b>TSH -Thyroid Stimulating Hormone</b>	1.44	µIU/mL	0.35-5.5	CLIA

**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.

Correlate Clinically.

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



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**