



Sagepath Labs Pvt. Ltd.

Lab Address: - # Plot No. 564, 1st floor, Buddhanagar, Near Sai Baba Temple Peerzadiguda Boduppal Hyderabad, Telangana. ICMR Reg .No. SAPALAPVLHT (Covid -19)

LABORATORY TEST **REPORT**

Name : Mrs. MOUNIKA Sample ID : B2623219

Age/Gender : 30 Years/Female Referred by : Dr. Nivedita Ashrit MD (Obs/Gyn)

Referring Customer: V CARE MEDICAL DIAGNOSTICS Primary Sample : Whole Blood Sample Tested In : Serum

: Kimtee colony ,Gokul Nagar,Tarnaka

Reg. No : 0312505070067

SPP Code : SPL-CV-172

Collected On

Received On : 07-May-2025 10:57 PM

: 07-May-2025 07:25 PM

: 08-May-2025 12:17 AM Reported On

Report Status : Final Report

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Test Name	Results	Units	Biological Reference Interval

TSH -Thyroid Stimulating Hormone 5.39 µIU/mL 0.35-5.5

Pregnancy & Cord Blood

Client Address

		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.

*** End Of Report ***









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