

# DIAGNOSTIC REPORT



CLIENT CODE : C000106891

CLIENT'S NAME AND ADDRESS :  
MAA DAKHINAKALI PATHOLOGY AND CLINIC  
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PATIENT NAME : JYOSHNA RANI DAS

PATIENT ID : JYOSF230385310

ACCESSION NO : 031OUC011798 AGE : 36 Years SEX : Female DATE OF BIRTH :

DRAWN : 23/03/2021 00:00 RECEIVED : 23/03/2021 13:34 REPORTED : 23/03/2021 15:18

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

Test Report Status	Results	Biological Reference Interval	Units
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## ENDOCRINOLOGY

### THYROID PANEL BY CHEMILUMINESCENCE, SERUM

T3	144.00	80 - 200	ng/dL
METHOD : ELECTROCHEMILUMINESCENCE			
T4	10.22	5.1 - 14.1	µg/dL
METHOD : ELECTROCHEMILUMINESCENCE			
TSH 3RD GENERATION	0.658	0.27 - 4.20	µIU/mL
METHOD : ELECTROCHEMILUMINESCENCE			

#### Interpretation(s)

#### THYROID PANEL BY CHEMILUMINESCENCE, SERUM-

Triiodothyronine T3, is a thyroid hormone. It affects almost every physiological process in the body, including growth, development, metabolism, body temperature, and heart rate. Production of T3 and its prohormone thyroxine (T4) is activated by thyroid-stimulating hormone (TSH), which is released from the pituitary gland. Elevated concentrations of T3, and T4 in the blood inhibit the production of TSH. Thyroxine T4, Thyroxine's principal function is to stimulate the metabolism of all cells and tissues in the body. Excessive secretion of thyroxine in the body is hyperthyroidism, and deficient secretion is called hypothyroidism. Most of the thyroid hormone in blood is bound to transport proteins. Only a very small fraction of the circulating hormone is free and biologically active.

In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low.

Below mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3

Levels in	TOTAL T4 (µg/dL)	TSH3G (µIU/mL)	TOTAL T3 (ng/dL)
Pregnancy			
First Trimester	6.6 - 12.4	0.1 - 2.5	81 - 190
2nd Trimester	6.6 - 15.5	0.2 - 3.0	100 - 260
3rd Trimester	6.6 - 15.5	0.3 - 3.0	100 - 260

Below mentioned are the guidelines for age related reference ranges for T3 and T4.

T3 (ng/dL)	T4 (µg/dL)
New Born: 75 - 260	1-3 day: 8.2 - 19.9
	1 Week: 6.0 - 15.9

NOTE: TSH concentrations in apparently normal euthyroid subjects are known to be highly skewed, with a strong tailed distribution towards higher TSH values. This is well documented in the pediatric population including the infant age group.

Kindly note: Method specific reference ranges are appearing on the report under biological reference range.

#### Reference:

1. Burtis C.A., Ashwood E. R. Bruns D.E. Teitz textbook of Clinical Chemistry and Molecular Diagnostics, 4th Edition.
2. Gowenlock A.H. Varley's Practical Clinical Biochemistry, 6th Edition.
3. Behrman R.E. Kilegman R.M., Jenson H. B. Nelson Text Book of Pediatrics, 17th Edition

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

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*Bishal Datta*

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Head



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