



**Yash M. Patel**

Age : 21 Years

Sex : Male

PID : 555



**Sample Collected At:**

125, Shivam Bungalow, S G Road,  
Mumbai

Ref. By: **Dr. Hiren Shah**



Registered on: 02:31 PM 02 Dec, 2X

Collected on: 03:11 PM 02 Dec, 2X

Reported on: 04:35 PM 02 Dec, 2X

## THYROXINE (T4), TOTAL

Investigation	Result	Reference Value	Unit
<b>T4, TOTAL, SERUM</b> CLIA	<b>13.40</b> <b>High</b>	4.50 - 12.50	mcg/dL

### Comments :

Thyroxine (T4) is a hormone produced by the thyroid gland, which plays a crucial role in regulating metabolism and growth. The T4 test is used to assess thyroid function and diagnose thyroid disorders such as hypothyroidism (underactive thyroid) or hyperthyroidism (overactive thyroid).

### Note :

- Total T3 & T4 levels measure the hormone which is in the bound form and is not available to most tissues.
- Severe systemic illness affects the thyroid binding proteins and can falsely alter Total T4 levels in the absence of a primary thyroid disease. Hence Free T3 & T4 levels are recommended for accurate assessment of thyroid dysfunction.

### Interpretation

- High T4 Level - May be a sign of hyperthyroidism, which is an overactive thyroid gland.
- Low T4 Level - This may be a sign of hypothyroidism, which is an underactive thyroid gland.
- Normal T4 Level - This indicates that your thyroid gland is functioning normally.

### T4 High Levels cause:

- Graves' disease - Autoimmune disorder
- Toxic nodular goiter - Nodules in thyroid
- Subacute thyroiditis - Inflammation
- Thyroid storm - Severe increase

### T4 Low Levels cause :

- Hypothyroidism - Underactive thyroid
- Medications - Side effect
- Iodine deficiency - Lack of iodine

Thanks for Reference

\*\*\*\*End of Report\*\*\*\*

**Medical Lab Technician**  
(DMLT, BMLT)

**Dr. Payal Shah**  
(MD, Pathologist)

**Dr. Vimal Shah**  
(MD, Pathologist)

