

Patient Name :  
 DOB/Age/Gender :  
 Patient ID / UHID :  
 Referred By :  
 Sample Type :  
 Barcode No :

Bill Date :  
 Sample Collected :  
 Sample Received :  
 Report Date :  
 Report Status :



Test Description	Value(s)	Unit(s)	Reference Range
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**BIOCHEMISTRY REPORT**  
**Testosterone Free & Total**  
**Testosterone Total**

Testosterone Total Method : ECLIA	521	ng/dL	Males(20-49 years of age) 249 - 836 Males (>=50 years of age) 193 - 740
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**Interpretation:**

Reference values for Males (7-18 years) characterized by Tanner Stage

Tanner Stage	5-95th percentiles (ng/dL)
1	< 2.5
2	< 2.5 - 432
3	64.9 - 778
4	180 - 763
5	188 - 882

Reference values for females (8-18 years) characterized by Tanner Stage

Tanner Stage	5-95th percentiles (ng/dL)
1	<2.5 - 6.1
2	<2.5 - 10.4
3	<2.5 - 23.7
4	<2.5 - 26.8
5	4.6 - 38.3

**Note**

- All applications that require measurement of very low level of testosterone ( eg hypogonadal men, children, virilization or intersex disorders in women etc) recommended test is Testosterone total, Ultrasensitive
- LC-MS/MS is the gold standard for steroid hormone assays due to increased sensitivity & specificity as compared to immunoassays

**Clinical Use**

- Assessment of testicular function in males

**Increased levels**

- Precocious puberty (Males)
- Androgen resistance
- Testotoxicosis
- Congenital Adrenal Hyperplasia

**Decreased levels**

- Delayed puberty ( Males)
- Gonadotropin deficiency



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Booking Centre :- WALK-IN REDCLIFFE LABS- TILAK NAGAR, WALK-IN REDCLIFFE LABS- TILAK NAGAR  
 Processing Lab :- Redcliffe Lifetech Pvt. Ltd., H-55, Sector-63, Noida, Uttar Pradesh - 201301

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- Testicular defects
- Systemic diseases



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Test Description	Value(s)	Unit(s)	Reference Range
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**BIOCHEMISTRY REPORT**  
**Testosterone Free & Total**  
**Testosterone Free**

TESTOSTERONE, FREE, SERUM	28.0	pg/ml	15 - 50
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Method : CLIA

**Interpretation:**

**Comments:**

Testosterone circulates in blood bound to three proteins: sex hormone binding globulin (SHBG, 60-80%), albumin and cortisol binding globulin. About 1 - 2% of the total circulating testosterone remains unbound or free. Measurement of free testosterone permits the estimation of the biologically active hormone. Free testosterone determination is recommended to overcome the influences caused by variations in transport proteins on the total testosterone concentration. High concentration of SHBG (as seen in obesity, advanced age etc) may mask true deficit in testosterone levels. In Polycystic Ovarian Syndrome and related conditions, there is often significant insulin resistance, which is associated with low SHBG levels. Consequently, bioavailable or free testosterone levels may be more significantly elevated.

**Clinical Use**

As second-level test for suspected increases or decreases in physiologically active testosterone

- To assess androgen status in cases with suspected or known sex hormone-binding globulin-binding abnormalities
- To assess functional circulating testosterone in early pubertal boys and older men
- To assess functional circulating testosterone in women with symptoms or signs of hyperandrogenism but normal total testosterone levels



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