



Labsmart Software

Sample Letterhead

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yourlabname@gmail.com

<https://www.yourlabname.in/>**Mr. Dummy**

Age / Sex : 28 YRS / M

Referred by : Dr. Sachin Patil (MBBS)

Reg. no. : 1096



1096

Registered on : 19/11/2024 05:36 PM

Collected on : 19/11/2024

Received on : 19/11/2024

Reported on : 19/11/2024 05:36 PM

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**SEROLOGY & IMMUNOLOGY**

TEST	VALUE	UNIT	REFERENCE
TESTOSTERONE FREE	22.9	pg/mL	

Clinical Use

- As a secondary test to investigate alterations in physiologically active testosterone levels.
- To evaluate androgen status in cases with suspected or established abnormalities in sex hormone-binding globulin (SHBG).
- To assess functional serum testosterone levels in early pubertal males and older adult men.
- To measure functional circulating testosterone in females presenting with symptoms or signs of hyperandrogenism despite having normal total testosterone concentrations.

Comments

Testosterone circulates in the blood bound to three proteins: sex hormone-binding globulin (SHBG) (60-80%), albumin, and cortisol-binding globulin. Approximately 1-2% of circulating testosterone remains unbound or free. Measuring free testosterone provides an estimate of the biologically active hormone. This is particularly useful to account for variations in transport proteins that can affect total testosterone levels. Elevated SHBG levels, which can occur with conditions like obesity or advanced age, might obscure a true testosterone deficiency. In conditions such as Polycystic Ovary Syndrome (PCOS), where insulin resistance is prevalent and SHBG levels are often reduced, free or bioavailable testosterone levels may be significantly elevated.

~~~ End of report ~~~

Mr. Sachin Sharma  
DMLT, Lab Incharge

Dr. A. K. Asthana  
MBBS, MD Pathologist

NOT VALID FOR MEDICO LEGAL PURPOSE

Work timings: Monday to Sunday, 8 am to 8 pm

Please correlate clinically. Although the test results are checked thoroughly, in case of any unexpected test results which could be due to machine error or typing error or any other reason please contact the lab immediately for a free evaluation.