



# Test Definition: TTST

Testosterone, Total, Mass Spectrometry,  
Serum

**Reporting Title:** Testosterone, Total, S

**Performing Location:** Mayo Clinic Laboratories - Rochester Superior Drive

**Necessary Information:**

**Patient's age and sex are required.**

**Specimen Requirements:**

**Supplies:** Sarstedt Aliquot Tube, 5 mL (T914)

**Collection Container/Tube:** Red top (serum gel/SST are **not** acceptable)

**Submission Container/Tube:** Plastic vial

**Specimen Volume:** 1 mL

**Collection Instructions:** Centrifuge and aliquot serum into a plastic vial.

**Forms:**

Specimen Type	Temperature	Time	Special Container
Serum Red	Refrigerated (preferred)	14 days	
	Frozen	60 days	

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
8533	Testosterone, Total, S	Numeric	ng/dL	2986-8

LOINC® and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**CPT Code Information:**

84403

**Reference Values:**

Males

0-5 months: 75-400 ng/dL

6 months-9 years: <7-20 ng/dL

10-11 years: <7-130 ng/dL

12-13 years: <7-800 ng/dL

14 years: <7-1,200 ng/dL

15-16 years: 100-1,200 ng/dL

17-18 years: 300-1,200 ng/dL

> or =19 years: 240-950 ng/dL

---

**Tanner Stages\***

I (prepubertal): &lt;7-20

II: 8-66

III: 26-800

IV: 85-1,200

V (young adult): 300-950

**Females**

0-5 months: 20-80 ng/dL

6 months-9 years: &lt;7-20 ng/dL

10-11 years: &lt;7-44 ng/dL

12-16 years: &lt;7-75 ng/dL

17-18 years: 20-75 ng/dL

&gt; or =19 years: 8-60 ng/dL

**Tanner Stages\***

I (prepubertal): &lt;7-20

II: &lt;7-47

III: 17-75

IV: 20-75

V (young adult): 12-60

\*Puberty onset (transition from Tanner stage I to Tanner stage II) occurs for boys at a median age of 11.5 (+/-2) years and for girls at a median age of 10.5 (+/-2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. For boys, there is no definite proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage V (young adult) should be reached by age 18.