MAYO CLINIC
Mayo Medical Laboratories

Test Definition: TGRP

Testosterone, Total and Free, Serum

Reporting Title: Testosterone, Total and Free, S
Performing Location: Rochester

Specimen Requirements:

Container/Tube:
Preferred: Red top
Acceptable: Serum gel
Specimen Volume: 2.5 mL
Additional Information: Patient's age and sex are required.
Forms: If not ordering electronically, submit a General Request Form (Supply T239) with the specimen.

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

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
3631	Testosterone, Free, S	Numeric	ng/dL	2991-8
8533	Testosterone, Total, S **Also used by tests: TTST**	Numeric	ng/dL	2986-8

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
FRTST	Testosterone, Free, S	1	84402	Yes	No
TTST	Testosterone, Total, S	1	84403	Yes	Yes (Order TTST)

Reference Values:

TESTOSTERONE, FREE
Males: 9-30 ng/dL
Females: 0.3-1.9 ng/dL
Reference values are not established for subjects <16 years.

TESTOSTERONE, TOTAL
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): <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: <7-20 ng/dL
10-11 years: <7-44 ng/dL
12-16 years: <7-75 ng/dL
17-18 years: 20-75 ng/dL
> or =19 years: 8-60 ng/dL
Tanner Stages*
I (prepubertal): <7-20
II: <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.