MAYO CLINIC
Mayo Medical Laboratories

Test Definition: TTBS

Testosterone, Total and Bioavailable, Serum

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

Specimen Requirements:

Container/Tube:
Preferred: Red top
Acceptable: Serum gel
Specimen Volume: 1 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®
82978	Testosterone, Bioavailable, S	Numeric	ng/dL	2990-0
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
BATS	Testosterone, Bioavailable, S	1	84402	Yes	No
TTST	Testosterone, Total, S	1	84403	Yes	Yes

Reference Values:

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.

TESTOSTERONE, BIOAVAILABLE
Males
< or =19 years: not established
20-29 years: 83-257 ng/dL
30-39 years: 72-235 ng/dL
40-49 years: 61-213 ng/dL
50-59 years: 50-190 ng/dL
60-69 years: 40-168 ng/dL
> or =70 years: not established
Females (non-oophorectomized)
< or =19 years: not established
20-50 years (on oral estrogen): 0.8-4.0 ng/dL
20-50 years (not on oral estrogen): 0.8-10 ng/dL
>50 years: not established