

Testosterone, Free and Weakly Bound, with Total Testosterone, LC/MS-MS

Explanation: The following new orderable, referred to LabCorp Burlington, will be available effective August 28, 2025.

Test ID: FFTST

Methods:

Ammonium sulfate precipitation; liquid chromatography/tandem mass spectrometry (LC/MS-MS)

Reference Values:

CHILDREN

Premature Infants	Male Range (ng/dL)	Female Range (ng/dL)
26 to 28 weeks, Day 4	59.0-125.0	5.0-16.0
31 to 35 Weeks, Day 4	37.0-198.0	5.0-22.0

Full-term Infants

Newborns	75.0-400.0	20.0-64.0
----------	------------	-----------

Males 1 to 7 Months

Levels decrease rapidly the first week to 20.0-50.0 ng/dL, then increase to 60.0-400.0 ng/dL (mean=190.0) between 20-60 days. Levels then decline to prepubertal range of <2.5-10.0 by seven months.

Females 1 to 7 Months

Levels decrease during the first month to <10.0 ng/dL and remain there until puberty.

Prepubertal Children	1 to 10 years	1 to 9 years
Range (ng/dL)	<2.5-10.0	<2.5-10.0

PUBERTY

Tanner Stage (Males)	Age (Years)	Range (ng/dL)	Mean (ng/dL)
1	<9.8	<2.5-10.0	4.9
2	9.8-14.5	18.0-150.0	42.0
3	10.7-15.4	100.0-320.0	190.0
4	11.8-16.2	200.0-620.0	372.0
5	12.8-17.3	350.0-970.0	546.0

Tanner Stage (Females)	Age (Years)	Range (ng/dL)	Mean (ng/dL)
1	<9.2	<2.5-10.0	4.9
2	9.2-13.7	7.0-28.0	18.0
3	10.0-14.4	15.0-35.0	25.0
4	10.7-15.6	13.0-32.0	22.0
5	11.8-18.6	20.0-38.0	28.0

ADULTS

Greater than or=18 Years	Range (ng/dL)
Males	350.0-1030.0
Females	
Premenopausal	10.0-55.0
Postmenopausal	7.0-40.0

Testosterone % Free+Weakly Bound Ref Ranges:

Female: 3.0 – 18.0%

Male: 9.0 – 46.0%

Testosterone, F+W Bound:

Female: 0.0 – 9.5 ng/dL

Male: 40.0 – 250.0 ng/dL

Specimen Requirements:**Collection Container/Tube:****Preferred:** Red Top**Acceptable:** Serum gel**Submission Container/tube:** Plastic vial**Specimen Volume:** 2 mL**Collection Instructions:**

1. Draw blood in a plain red-top tube(s).
2. Within one hour of collection, centrifuge and aliquot 2 mL serum into a plastic vial.
3. Ship refrigerated.

Minimum Volume: 1.4 mL (does not allow for repeat testing)**Specimen Stability Information:**

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	7 days
	Ambient	7 days

CPT Code:

84410

Day(s) Setup: Daily**Report Available:** 6 to 10 days**Questions:**

Contact MCS Referrals Supervisors Amy Bluhm or Heather Hilgart at 800-533-1710.