

Testosterone, Total, Bioavailable, and Free, Serum

Test ID: TTFB

Explanation: Due to assay performance issues, TTFB will be test down immediately. Pending samples received at Mayo Clinic Laboratories through October 25th will be performed with extended turnaround times. Samples not yet received will be forwarded to LabCorp Burlington through the recommended alternative test below.

Note:

The client-specific fee for TTFB will be honored for the first 30 days of this event via a one-time retroactive credit.

Recommended Alternative Test:

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

Test ID: FFTST

Methodology:

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

Reference Values:

CHILDREN

| | Male Range (ng/dL) | Female Range (ng/dL) |
|--------------------------|--------------------|----------------------|
| Premature Infants | | |
| 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 |
| | <2.5-10.0 | <2.5-10.0 |

PUBERTY

| Tanner Stage | Age (Years) | Range (ng/dL) | Mean (ng/dL) |
|--------------|-------------|---------------|--------------|
| Males | | | |
| 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 | Age (Years) | Range (ng/dL) | Mean (ng/dL) |
|--------------|-------------|---------------|--------------|
| Females | | | |
| 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

| | |
|--|----------------------|
| >or=18 Years | Range (ng/dL) |
| Males | 350.0-1030.0 |
| Females Premenopausal Postmenopausal | 10.0-55.0 7.0-40. |

Specimen Requirements:

Container/Tube: Red or SST

Specimen Volume: 2 mL

Collection Instructions: Draw blood in a plain red-top tube(s), serum gel tube(s) is acceptable. Spin down and send 2 mL serum in a plastic, screw-capped vial, shipped 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) Performed: Daily 1st and 3rd shifts **Report Available:** 6 to 10 days

Questions

Contact Joshua Yang, Laboratory Technologist Resource Coordinator at 800-533-1710.