MAYO CLINIC LABORATORIES

NEW REFERRAL TEST

Notification Date: August 22, 2024
Effective Date: Immediately

Testosterone, Free, Mass Spectrometry/Equilibrium Dialysis (Endocrine Sciences)

Explanation: The following new orderable, referred to Esoterix Endocrinology, will be available immediately.

Test ID: FFTFD

Methods:

Testosterone: high-pressure liquid chromatography (HPLC)/tandem mass spectrometry
Free testosterone: equilibrium dialysis

Reference Values:

Testosterone Expected Values:

Males:

Age:	Range (ng/dL):
Premature (26-28 weeks) Day 4	59-125
Premature (31-35 weeks) Day 4	37-198
Newborns (1 to 7 months)	75-400
Prepubertal (1 to 10 years)	<2.5-10
Adults (>18)	264-916

Females:

Age:	Range (ng/dL):
Premature (26-28 weeks) Day 4	5-16
Premature (31-35 weeks) Day 4	5-22
Newborns (1 to 7 months)	20-64
Prepubertal (1 to 9 years)	<2.5-10
Premenopausal	10-55
Postmenopausal	7-40

Males:

Tanner Stage:	Age (years):	Testosterone (ng/dL):
I	<9.8	<2.5-10
II	9.8-14.5	18-150
III	10.7-15.4	100-320
IV	11.8-16.2	200-620
V	12.8-17.3	350-970

Females:

Tanner Stage:	Age (years):	Testosterone (ng/dL):
I	<9.2	<2.5-10
II	9.2-13.7	7-28
III	10.0-14.4	15-35
IV	10.7-15.6	13-32
V	11.8-18.6	20-38

Free Testosterone Expected Values:

Males:

Age:	% Free:	pg/mL
Full-term infants (1-15 days)	0.9-1.7	1.5-31
Full-term infants (1-2 months)	0.4-0.8	3.3-18
Full-term infants (3-4 months)	0.4-1.1	0.7-14
Full-term infants (5-6 months)	0.4-1.0	0.4-4.8
Prepubertal children (1-10 years)	0.4-0.9	0.15-0.6
Puberty	*	*
Adults	1.5-3.2	52-280

Females:

Age:	% Free:	pg/mL
Full-term infants (1-15 days)	0.8-1.5	0.5-2.5
Full-term infants (1-2 months)	0.4-1.1	0.1-1.3
Full-term infants (3-4 months)	0.5-1.0	0.3-1.1
Full-term infants (5-6 months)	0.5-0.8	0.2-0.6
Prepubertal children (1-10 years)	0.4-0.9	0.15-0.6
Puberty:	*	*
Adults	0.8-1.4	1.1-6.3

***Puberty:** Comprehensive values for free testosterone by dialysis for both males and females throughout puberty are currently unavailable.

Specimen Requirements:

Container/Tube:

Preferred: Red top

Acceptable: Serum gel

Specimen Volume: 2 mL

Collection Instructions: 1.Draw blood in a plain red-top tube(s), serum gel tube(s) is acceptable.
2. Centrifuge within 45 min of draw and aliquot 2 mL of serum in a plastic vial.
3. Send frozen.

Minimum Volume: 1 mL

Note:

To avoid delay in turnaround time when requesting multiple tests, submit separate frozen specimens for each test requested.

Specimen Stability Information:

Specimen Type	Temperature	Time
Serum	Frozen (preferred)	
	Ambient	6 days
	Refrigerated	7 days

CPT Code:
84402, 84403

Day(s) Setup: Varies **Report Available:** 8-14 days

Questions
Contact MCL Referrals Supervisor Amy Bluhm at 800-533-1710.