

Specimen Collected: 16-Dec-21 15:20

Testosterone, Bio/SHBG, by Immunoassay | Received: 16-Dec-21 15:27 Report/Verified: 16-Dec-21 15:48

Procedure	Result	Units	Reference Interval
Testosterone by Immunoassay	151 ^L ⁱ¹	ng/dL	300-1080
Sex Hormone Binding Globulin	20 ⁱ²	nmol/L	17-56
Testosterone, Bioavailable	92 ^L ⁱ³	ng/dL	131-682
Testosterone, Free Calculation	33 ^L ⁱ⁴	pg/mL	47-244
Testosterone, Percentage Free	2.2	%	1.6-2.9

Test Information

i1: Testosterone by Immunoassay
 INTERPRETIVE INFORMATION: Testosterone by Immunoassay

Testosterone immunoassays are both imprecise and inaccurate at low testosterone concentrations, such as those found in children and cisgender females. For these individuals, testing by mass spectrometry is recommended; refer to Testosterone (Adult Females, Children, or Individuals on Testosterone-Suppressing Hormone Therapy) (ARUP test code 0081058). Free or bioavailable testosterone measurements may provide supportive information.

For individuals on testosterone hormone therapy, refer to cisgender male reference intervals. No reference intervals have been established for males younger than 14 years or for cisgender females. For a complete set of all established reference intervals, refer to ltd.aruplab.com/Tests/Pub/0070130.

i2: Sex Hormone Binding Globulin
 REFERENCE INTERVAL: Sex Hormone Binding Globulin

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

i3: Testosterone, Bioavailable
 INTERPRETIVE INFORMATION: Testosterone, Bioavailable

Bioavailable testosterone concentration is calculated using total testosterone (measured by immunoassay) and the binding constant of testosterone and sex hormone-binding globulin (SHBG) and/or albumin. Testosterone immunoassays are both imprecise and inaccurate at low testosterone concentrations, such as those found in children and cisgender females. For these individuals, testing by mass spectrometry is recommended; refer to Testosterone, Bioavailable and Total, Includes Sex Hormone-Binding Globulin (Adult Females, Children, or Individuals on Testosterone-Suppressing Hormone Therapy) (ARUP test code 0081057).

*=Abnormal, #=Corrected, C=Critical, f=Result Footnote, H=High, i=Test Information, L=Low, t=Interpretive Text, @=Performing lab

Unless otherwise indicated, testing performed at:

ARUP Laboratories

500 Chipeta Way, Salt Lake City, UT 84108

Laboratory Director: Tracy I. George, MD

ARUP Accession: 21-350-900172

Report Request ID: 15066503

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Test Information

i3: Testosterone, Bioavailable

For individuals on testosterone hormone therapy, refer to cisgender male reference intervals. No reference intervals have been established for males younger than 14 years or for cisgender females. For a complete set of all established reference intervals, refer to ltd.aruplab.com/Tests/Pub/0070102.

i4: Testosterone, Free Calculation

INTERPRETIVE INFORMATION: Testosterone, Free Calculation

Free testosterone concentration is calculated using total testosterone (measured by immunoassay) and the binding constant of testosterone and sex hormone-binding globulin (SHBG). Testosterone immunoassays are both imprecise and inaccurate at low testosterone concentrations, such as those found in children and cisgender females. For these individuals, testing by mass spectrometry is recommended; refer to Testosterone, Free (Adult Females, Children, or Individuals on Testosterone-Suppressing Hormone Therapy) (ARUP test code 0081059).

For individuals on testosterone hormone therapy, refer to cisgender male reference intervals. No reference intervals have been established for males younger than 14 years or for cisgender females. For a complete set of all established reference intervals, refer to ltd.aruplab.com/Tests/Pub/0070109.

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