
Lab Dept: Chemistry

Test Name: LUTEINIZING HORMONE (LH)

General Information

Lab Order Codes: LH

Synonyms: LH; Lutropin

CPT Codes: 83002 – Gonadotropin; luteinizing hormone (LH)

Test Includes: LH concentration measured in mIU/mL.

Logistics

Test Indications: Luteinizing hormone (LH) is secreted by the anterior pituitary in response to gonadotropin-releasing hormone. LH secretion is regulated by a balance of positive and negative feedback mechanisms involving the hypothalamic-pituitary axis and the pituitary. FSH and LH play a critical role in maintaining the normal function of the male and female reproductive systems.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 day

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Preferred: Green top (Li Heparin) tube
Alternate: Red, marble or gold top tube

Draw Volume: 1.5 mL (Minimum: 0.6 mL) blood

Processed Volume: 0.5 mL (Minimum: 0.2 mL) plasma/serum

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen, remove plasma/serum aliquot into a plastic sample cup. Store at 2-8 degrees Centigrade for up to 7 days.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen

Interpretive

Reference Range:

Age:	Range: mIU/mL
Pediatrics (Prepubertal Children ≤10 yrs):	<5.0 mIU/mL
Adult Males:	1.5 – 9.0 mIU/mL
Menstruating Females:	
Follicular phase:	2.0 – 9.0 mIU/mL
Midcycle peak:	17.5 – 72.9 mIU/mL
Luteal phase:	2.0 – 11.0 mIU/mL

Critical Values: N/A

Limitations: Heterophile antibodies may interfere with immunoassay tests.

Methodology: Homeogeneous Sandwich Chemiluminescent Immunoassay

References: Siemens Dimension Vista LH Instructions For Use. 8/4/2012

Jacobs and DeMott Laboratory Test Handbook (2001), Lexi-Comp Inc, Hudson, OH, 5th Edition

National Committee for Clinical Laboratory Standards (NCCLS) (2002) Clinical Laboratory Technical Procedure Manuals; Approved Guideline-Fourth Edition GP2-A4

Burtis CA, Ashwood ER, editors (2006) Tietz Textbook of Clinical Chemistry. 4th ed. Philadelphia: W.B. Saunders

Biorad Immunoassay Plus Control Product Insert PIL2KLH-19

Updates: 7/22/2014: Method change, previously listed as Competitive Chemiluminescent Immunoassay
2/8/2016: Update alt tube types

