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**Lab Dept:** Chemistry

**Test Name:** FOLLICLE STIMULATING HORMONE (FSH)

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***General Information***

**Lab Order Codes:** FSH

**Synonyms:** FSH; Follitropin

**CPT Codes:** 83001 – Gonadotropin; follicle stimulating hormone

**Test Includes:** Follicle stimulating hormone (FSH) concentration reported in mIU/mL.

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***Logistics***

**Test Indications:** FSH is a glycoprotein hormone secreted by the anterior pituitary in response to gonadotropin-releasing hormone. 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

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***Specimen***

**Specimen Type:** Blood

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

**Draw Volume:** 1.5 mL (Minimum: 0.75 mL) blood

**Processed Volume:** 0.5 mL (Minimum: 0.25 mL) plasma/serum

**Collection:** Routine blood collection

**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

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***Interpretive***

**Reference Range:**

Age	Reference Range (mIU/mL)
<b>Males</b>	
< 1 year:	0.09 – 2.41
1 - <5 years:	0 – 0.91
5 - <10 years:	0 – 1.62
10 - <13 years:	0.35 – 3.91
13 - <19 years:	0.78 – 5.1
Adult:	0.95 – 11.95
<b>Females</b>	
<1 year:	0.38 – 10.4
1 - <9 years:	0.42 – 5.45
9 - <11 years:	0.44 – 4.22
11 - <19 years:	0.26 – 7.77
<b>Menstruating Females</b>	
Follicular Phase:	3.03 – 8.08
Midcycle Peak:	2.55 – 16.69
Luteal Phase:	1.38 – 5.47
Post-Menopausal:	26.72 – 133.4

**Critical Values:** N/A

**Limitations:** Heterophile antibodies may interfere with immunoassay tests.

**Methodology:** Chemiluminescent Immunoassay (CMIA)

**References:** Abbott Alinity i FSH Reagent Instructions for Use (April 2018) Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA

Abbott Alinity i FSH Calibrator Kit Package Insert, Abbott Laboratories Diagnostics Division (April 2018) Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA

CALIPER Reference Interval Studies (accessed 10/27/2020)

Bio-Rad Liquichek Immunoassay Plus Quality Control Package Insert (April 2020) Bio-Rad Laboratories, Irvine, CA, 92618

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

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

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

**Updates:** 7/22/2014: Method change, previously listed as Two Site Immunoassay, Chemiluminescence.  
2/8/2016: Update alt tube types  
12/11/2020: Updated for method Abbott Alinity, removed method Siemens Vista