



# Test Definition: LH

Luteinizing Hormone (LH), Serum

**Reporting Title:** Luteinizing Hormone (LH), S

**Performing Location:** Mayo Clinic Laboratories - Rochester Main Campus

**Ordering Guidance:**

1. The limit of quantitation for this test is 0.01 IU/L. In pediatric settings where greater analytical sensitivity is required, order LHPED / Luteinizing Hormone (LH), Pediatrics, Serum.
2. The preferred test to confirm menopausal status is FSH / Follicle-Stimulating Hormone (FSH), Serum.

**Specimen Requirements:**

**Patient Preparation:** For 12 hours before specimen collection, patient **should not** take multivitamins or dietary supplements (eg, hair, skin, and nail supplements) containing biotin (vitamin B7).

**Supplies:** Sarstedt Aliquot Tube, 5 mL (T914)

**Collection Container/Tube:**

**Preferred:** Serum gel

**Acceptable:** Red top

**Submission Container/Tube:** Plastic vial

**Specimen Volume:** 0.6 mL

**Collection Instructions:** Within 2 hours of collection, centrifuge and aliquot serum into a plastic vial.

**Forms:**

If not ordering electronically, complete, print, and send an [Oncology Test Request](#) (T729) with the specimen.

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	7 days	
	Ambient	24 hours	
	Frozen	180 days	

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
LH	Luteinizing Hormone (LH), S	Numeric	IU/L	10501-5

LOINC® and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**CPT Code Information:**

83002

**Reference Values:**

Males

< or =4 weeks: Not established

>1 month-< or =12 months: < or =0.4 IU/L

>12 months-< or =6 years: < or =1.3 IU/L  
>6-< or =11 years: < or =1.4 IU/L  
>11-< or =14 years: 0.1-7.8 IU/L  
>14-< or =18 years: 1.3-9.8 IU/L  
>18 years: 1.3-9.6 IU/L

#### Females

< or =4 weeks: Not established  
>1-< or =12 months: < or =0.4 IU/L  
>12 months-< or =6 years: < or =0.5 IU/L  
>6-< or =11 years: < or =3.1 IU/L  
>11-< or =14 years: < or =11.9 IU/L  
>14-< or =18 years: 0.5-41.7 IU/L

#### Premenopausal:

Follicular: 1.9-14.6 IU/L  
Midcycle: 12.2-118.0 IU/L  
Luteal: 0.7-12.9 IU/L  
Postmenopausal: 5.3-65.4 IU/L