MAYO CLINIC LABORATORIES

Test Definition: FHPL

Human Placental Lactogen (HPL)

Overview

Method Name
Enzyme-Linked Immunosorbent Assay (ELISA)

NY State Available
No

Specimen

Specimen Type
Serum Red

Specimen Required
Supplies: Sarstedt Aliquot Tube, 5 mL (T914)
Specimen Type: Serum
Container/Tube: Red top
Specimen Volume: 1 mL
Collection Instructions:
1. Centrifuge at 3000 rpm for 10 minutes
2. Aliquot 1 mL of serum into a plastic vial and freeze immediately.
3. Send serum frozen.

Specimen Minimum Volume
0.5 mL

Reject Due To

Hemolysis	Reject
Icterus	Reject
Lipemia	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum Red	Frozen	90 days	

Clinical & Interpretive

Clinical Information

Human placental lactogen (hPL; chorionic somatomammotropin) is a 21,000 Da polypeptide produced during pregnancy by placental trophoblastic cells. The level of hPL in maternal serum is directly related to placental function and fetal well-being.

Human placental lactogen is detected about 6 weeks after conception and its concentration increases gradually to peak levels (without decreases) until about the 34th week where it remains stable for the remainder of the pregnancy. Consistently low levels throughout pregnancy or a sudden drop in serial determinations are an indication of fetal distress. After normal delivery, the hPL concentration falls rapidly to an undetectable level.

The hPL levels in serum of women with multiple placenta pregnancies generally exceeds that of single placenta pregnancies. This is generally noted from the 2nd trimester to delivery.

Reference Values

Males and nonpregnant Women: 0.0-0.1 mcg/mL
1st Trimester of Pregnancy: 0.2-2.1 mcg/mL
2nd Trimester of Pregnancy: 0.5-6.7 mcg/mL
3rd Trimester of Pregnancy: 4.5-12.8 mcg/mL

Performance

PDF Report

No

Day(s) Performed

Thursday

Report Available

3 to 11 days

Performing Laboratory Location

BioAgilytix Diagnostics

Fees & Codes

Fees

- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

Test Classification

The performance characteristics of the listed assay was validated by BioAgilytix Diagnostics. The US FDA has not approved or cleared this test. The results of this assay can be used for clinical diagnosis without FDA approval.

BioAgilytix Diagnostics is a CLIA certified, CAP accredited laboratory for performing high complexity assays such as this one.

CPT Code Information

83632

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FHPL	Human Placental Lactogen	2104-8

Result ID	Test Result Name	Result LOINC® Value
Z0146	Human Placental Lactogen	2104-8