

**ADVANCE DIAGNOSTICS CENTRE**

C1-C2/17A, NEAR NIHARIKA TALKIES

KORBA- 495677

PH-09228333 MOBILE-9300888178

NAME : MRS SUMITA JAIN 34 Years / Female Reg No. : 18959
Ref. By : DR. SHRIVASTAVA JYOTI Reg. Date : 02/08/2022 01:28PM
Address : Collected At : MedZone Center

INVESTIGATION REPORT**CLINICAL BIOCHEMISTRY**

| TEST | RESULT | UNIT | BIOLOGICAL REF RANGE | TEST METHOD |
|------|--------|------|----------------------|-------------|
|------|--------|------|----------------------|-------------|

B-HCG (Beta Human Chorionic Gonadotropin)-Serum

Sample Type : SERUM

B-HCG (Beta Human Chorionic Gonadotropin) : 6195 mIU/mL < 5.3 : Non pregnant CLIA
-Serum Gestational

Age (wks) Normal range

1 – 2 16 – 156

2 – 3 101 – 4,870

3 – 4 1110 – 31500

4 – 5 2560 – 82300

5 – 6 23100 – 151000

6 – 7 27300 – 233000

7 – 11 20900 – 291000

11 – 16 6140 –

103000

16 – 39 2700 – 80100

Similarly to LH, FSH and TSH, human chorionic gonadotropin (hCG) is a member of the glycoprotein family and consists of 2 subunits (alpha and beta chains) which are associated in the intact hormone. The alpha chains in all four of these glycoprotein hormones are virtually identical, whereas the beta-chains have greatly differing structures and are responsible for the respective specific hormonal functions. hCG is produced in the placenta during pregnancy. In non-pregnant women, it can also be produced by tumors of the trophoblast, germ cell tumors with trophoblastic components and some non-trophoblastic tumors. Human chorionic gonadotropin consists of a number of isohormones having the same biological activity but differing molecular size. The biological action of hCG serves to maintain the corpus luteum during pregnancy. It also influences steroid production. The serum of pregnant women contains mainly intact hCG. Measurement of the hCG concentration permits the diagnosis of pregnancy just one week after conception. The determination of hCG in the 1st trimester of pregnancy is of particular importance. Elevated values here serve as an indication of chorionic carcinoma, hydatiform mole or multiple pregnancy. Depressed values indicate threatening or missed abortion, ectopic pregnancy, gestosis or intra-uterine death. Elevated hCG concentrations not associated with pregnancy are found in patients with other diseases such as tumors of the germ cells, ovaries, bladder, pancreas, stomach, lungs and liver. The specific monoclonal antibodies used recognize the holohormone, "nicked" forms of hCG, the beta-core fragment and the free beta-subunit. The ruthenium-labeled and biotinylated antibodies used are directed against different epitopes of the hCG molecule.

METHOD: One-step sandwich and competitive FEIA

INSTRUMENT: TOSHO AIA-360 JAPAN

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--- End Of Report ---

Sample Registered On : 02/08/2022 01:28PM

Sample Received On : 02/08/2022 01:29PM

Report Released On : 02/08/2022 05:45PM

Sample Barcode :



Checked By:VIVEK

Dr. VANDANA CHANDANI