

**ADVANCE DIAGNOSTICS CENTRE****C1-C2/17A, NEAR NIHARIKA TALKIES****KORBA- 495677****PH-09228333 MOBILE-9300888178**

NAME : MRS SOUMYA RAJAN

31 Years / Female

Reg No. : 8995

Ref. By : . SELF

Reg. Date : 17/04/2022 11:32AM

Address :

Collected At : MedZone Center

INVESTIGATION REPORT**CLINICAL BIOCHEMISTRY**

<u>TEST</u>	<u>RESULT</u>	<u>UNIT</u>	<u>BIOLOGICAL REF RANGE</u>	<u>TEST METHOD</u>
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B-HCG (Beta Human Chorionic Gonadotropin)-Serum

Sample Type : SERUM

B-HCG (Beta Human Chorionic Gonadotropin) : <0.100 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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TSH (Thyroid Stimulating Hormone)

Sample Type : SERUM

TSH (Thyroid Stimulating Hormone)	: 3.99	μIU/mL	0.37 - 4.8 : Adults 0.46 - 8.1 : 1mon-5 Yrs 0.52 -16.0 : 1 - 30 Days	Fully Automated Roche E411 (ECL)
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Thyroid-stimulating hormone (TSH, thyrotropin) is a glycoprotein having a molecular weight of approx. 30,000 daltons and consisting of two subunits. The beta-subunit carries the TSH-specific immunological and biological information, whereas the alpha-chain carries species-specific information and has an identical amino acid sequence to the alpha-chains of LH, FSH and hCG. TSH is formed in specific basophil cells of the anterior pituitary and is subject to a circadian secretion sequence. The hypophyseal release of TSH (thyrotropic hormone) is the central regulating mechanism for the biological action of thyroid hormones. TSH has a stimulating action in all stages of thyroid hormone formation and secretion; it also has a proliferative effect. The determination of TSH serves as the initial test in thyroid diagnostics. Even very slight changes in the concentrations of the free thyroid hormones bring about much greater opposite changes in the TSH level. Accordingly, TSH is a very sensitive and specific parameter for assessing thyroid function and is particularly suitable for early detection or exclusion of disorders in the central regulating circuit between the hypothalamus, pituitary and thyroid. Roche Cobas TSH employs monoclonal antibodies specifically directed against human TSH. The antibodies labeled with ruthenium complex* consist of a chimeric construct from human and mouse-specific components. As a result, interfering effects due to HAMA (human anti-mouse antibodies) are largely eliminated.

METHOD: One-step sandwich and competitive FEIA

INSTRUMENT: TOSHO AIA-360 JAPAN

Fasting Urine Glucose

Sample Type : Select Sample Type

Fasting Urine Glucose : Absent

GOD-POD

--- End Of Report ---

Sample Registered On : 17/04/2022 11:32AM

Sample Received On : 17/04/2022 12:11PM

Report Released On : 17/04/2022 06:10PM

Sample Barcode :



Checked By:dharmendra

Dr. VANDANA CHANDANI