

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

NAME : MS GANGOTRI BHAGAT 24 Years / Female Reg No. : 7027
Ref. By : SELF Reg. Date : 28/03/2022 03:33PM
Address : H No-E 576 CSED west darri , KORBA , 495677 Collected At : MedZone Center

INVESTIGATION REPORT**CLINICAL BIOCHEMISTRY**

TEST	RESULT	UNIT	BIOLOGICAL REF RANGE	TEST METHOD
<u>Prolactin</u>				
Sample Type	: SERUM			
Prolactin	: 94.66	ng/ml	4.79 - 23.3 : Non-Pregnant 9.7 - 208.5 : Pregnancy 1.8 - 20.3 : PostMenopause	E CLIA

Prolactin is synthesized in the anterior pituitary and is secreted in episodes. The hormone is made up of 198 amino acids and has a molecular weight of approx. 22–23 kD. Prolactin appears in serum in three different forms. The biologically and immunologically active monomeric ('little') form predominates (approx. 80%), 5–20% is present as the biologically inactive dimeric ('big') form and 0.5–5% is present as the tetrameric ('big-big') form having low biological activity. The target organ for prolactin is the mammary gland, the development and differentiation of which is promoted by this hormone. High concentrations of prolactin have an inhibiting action on steroidogenesis of the ovaries and on hypophyseal gonadotropin production and secretion. During pregnancy the concentration of prolactin rises under the influence of elevated estrogen and progesterone production. The stimulating action of prolactin on the mammary gland leads post partum to lactation. Hyperprolactinemia (in men and women) is the main cause of fertility disorders. The determination of prolactin is utilized in the diagnosis of anovular cycles, hyperprolactinemic amenorrhea and galactorrhea, gynecomastia and azoospermia. Prolactin is also determined when breast cancer and pituitary tumors are suspected. Roche Cobas Prolactin uses two monoclonal antibodies specifically directed against human prolactin. The biotinylated antibody in reagent R1 recognizes the N-terminal end of the prolactin molecule, whereas the antibody marked with the ruthenium complex* in reagent R2 probably reacts with a region in the middle of the prolactin molecule.

METHOD: One-step sandwich and competitive FEIA

INSTRUMENT: TOSHO AIA-360 JAPAN

--- End Of Report ---

Sample Registered On : 28/03/2022 03:33PM

Sample Received On : 28/03/2022 05:00PM

Other Collection

Report Released On : 29/03/2022 11:54AM

Sample Barcode :



Checked By: VIVEK

Dr. VANDANA CHANDANI