

Inhibin B

Method:	Enzyme Linked Immunosorbent Assay (ELISA)
Kit Manufacturer:	Ansh Labs, Webster, TX
Description:	<p>Inhibin B is a dimeric hormone that is composed of alpha (α) and beta B (βB) subunits. The bioactivity of the inhibin's subunit depends on the formation of a dimeric α-β structure, and only dimeric forms of inhibin's are biologically active. Inhibin's are protein hormones secreted by granulosa cells of the ovary in the female and Sertoli Cells of the testis in the male. They selectively suppress the secretion of pituitary follicle stimulating hormone (FSH) and have local paracrine actions in the gonads. Inhibin B levels have been reported in Sertoli Cell function (potential marker for spermatogenesis and testicular function), ovarian reserve and granulosa cell tumors.</p> <p>The Inhibin B ELISA is a quantitative three-step sandwich type immunoassay. In the assay, the antibody-biotin conjugate binds to a solid phase antibody-antigen complex which in turn binds to a streptavidin-enzyme conjugate. The antibody-antigen-biotin conjugate-SHRP complex bound to the well is detected by enzyme-substrate reaction. The degree of enzymatic turnover of the substrate is determined by dual wavelength absorbance measurement. The absorbance measured is directly proportional to the concentration of Inhibin B in the samples and calibrators.</p>

Collection and Performance Characteristics

Tube type:	Preferred: SST Alternate: Lithium Heparin Plasma
Minimum Volume:	0.2 mL
Special Processing Considerations	Avoid assaying lipemic, hemolyzed or icteric samples. Thaw samples no more than 2 times.
Lowest Reportable Value:	0.77 pg/mL
Dynamic range:	0.77 pg/mL to 542.0 pg/mL
Precision:	Intra-assay variation is 2.4 – 5.6% Inter-assay variation is 2.8 – 7.4%

Reference Range:

Males <15 days old: 68-373 pg/mL
Males 15-180 Days Old: 42-516 pg/mL
Males 0.6 – 7 Years Old: 24-300 pg/mL
Males 8 – 30 Years Old: 47 - 383 pg/mL
Males 31 – 72 Years Old: 10 - 357 pg/mL

Females 0 – 12 Years Old: 1 - 182 pg/mL
Females 13 - 41 Years Old: 7.9 - 223 pg/mL
Females 42 – 51 Years Old: 1 - 107 pg/mL

Post-menopausal Females 51 - 76 Years Old: 1 - 11 pg/mL
Females with Oligomenorrhea 14 - 47 Years Old: 6 - 359 pg/mL
Females with Amenorrhea 14 – 44 Years Old: 10 – 266 pg/mL