

Acceptable Tube Types

Estradiol

| Alternate Name: | | None | |
|--------------------------------|-------------------|---|--|
| Performing Lab: | | New Hanover | |
| Specimen Container: | | Yellow serum separator tube, green top tube (lithium heparin), or a red top tube. | |
| Minimum Volume Required | : | 1.0mL | |
| Testing Availability | Routine: Stat: | 24 hours/day Yes | |
| Turnaround Time: | | Routine: 4 hours Stat: < 1 hour | |
| Special Handling: | | None | |
| Patient Preparation: | | None | |
| Specimen Stability: | | 1 day at room temp, 2 days at 2-8C, or 14 days frozen. | |
| Reference Range: | | | |
| Normally Menstruating Females: | | | |
| Follicular phase: | | 21.4 – 164.8 mIU/mL | |
| Midcycle: | | 49.9 – 367.2 mIU/mL | |
| Luteal phase: | | 40.2 – 259.0 mIU/mL | |
| Post-menopausal on MHT: | | <11 – 462.1 mIU/mL | |
| Post-menopausal not on M | HT: | <11 – 58.3 mIU/mL | |
| Males: | | <11 – 52.5 mIU/mL | |
| | | | |

| Critical Value: | None |
|----------------------|---|
| CPT Code: | 82670 |
| Testing Methodology: | Homogeneous, sandwich chemiluminescent immunoassay |

| the ovarian function and monitoring follicular development for assisted reproduction protocols. Estradiol plays an essential role throughout the human menstrual cycle. Elevated estradiol levels in females may also result from primary or secondary ovarian hyperfunction. Very high estradiol levels are found during the induction of ovulation for assisted reproduction therapy or in | | based on LOCI technology. |
|--|--------------------------------|--|
| Clinical Significance: Measuring the circulating levels of estradiol is important for assessing the ovarian function and monitoring follicular development for assisted reproduction protocols. Estradiol plays an essential role throughout the human menstrual cycle. Elevated estradiol levels in females may also result from primary or secondary ovarian hyperfunction. Very high estradiol levels are found during the induction of ovulation for assisted reproduction therapy or in | Causes for Specimen Rejection: | Improper labeling |
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| pregnancy. Decreased estradio levels in females may result from either lack of ovarian synthesis (primary ovarian hypofunction and menopause) or a lesion in the hypothalamus-pituitary axis (secondary ovarian hypofunction). Elevated estradiol levels in males may be due to increased aromatization of androgens, resulting in gynecomastia. | Clinical Significance: | estradiol is important for assessing the ovarian function and monitoring follicular development for assisted reproduction protocols. Estradiol plays an essential role throughout the human menstrual cycle. Elevated estradiol levels in females may also result from primary or secondary ovarian hyperfunction. Very high estradiol levels are found during the induction of ovulation for assisted reproduction therapy or in pregnancy. Decreased estradiol levels in females may result from either lack of ovarian synthesis (primary ovarian hypofunction and menopause) or a lesion in the hypothalamus-pituitary axis (secondary ovarian hypofunction). Elevated estradiol levels in males may be due to increased aromatization of androgens, |