

ESTRADIOL PLASMA/ SERUM

Orderable - BEST

Turn Around Time: 4 hours

Alternate Name(s):

17 Beta Estradiol
E2
Major Estrogen

Specimen:

Adult	Pediatric
4.5 mL Light Green top Vacutainer tube	0-2 years: 0.5 mL Green top Microtainer 2-10 years: 3 mL Light Green top Vacutainer tube
Red, Gold, or Lavender (EDTA) top tubes are also acceptable	

Collection Information:

Minimum volume of plasma or serum required is 700 µL for adult samples or 200 µL for pediatric samples.

Reference Ranges:

Male	
Age	Range
>18 years:	≤159 pmol/L

Female	
Follicular phase	114 - 332 pmol/L
Early follicular phase:	76-231 pmol/L
Intermediate follicular phase:	96 – 294 pmol/L
Late follicular phase:	182 – 858 pmol/L

Ovulatory phase:	222 – 1959 pmol/L
Luteal phase:	222 – 854 pmol/L



Laboratory:
Core Lab




Requisition:
GENERAL LABORATORY
REQUISITION



Method of Analysis:
Roche
Electrochemiluminescence



Test Schedule:
As required


 ESTRADIOL
 PLASMA/
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Early luteal phase:	188 – 658 pmol/L
Intermediate luteal phase:	244 – 1123 pmol/L
Late luteal phase:	111 – 815 pmol/L

First trimester of pregnancy:	563 – 11902 pmol/L
Second trimester of pregnancy:	5729 – 78098 pmol/L
Third trimester of pregnancy	31287 – >110100 pmol/L
Post-menopausal:	<92 pmol/L

Interpretive Comments:

Estradiol can be used as an indicator of follicular function and provides information in the diagnosis of amenorrhea and infertility. During pregnancy estradiol levels increase.

In males, estradiol can be used to evaluate feminizing syndromes.

Comments:

Biotin, fulvestrant (Faslodex), and steroid drugs may interfere with this test. Samples should not be taken from patients receiving high biotin doses (i.e. > 5 mg/day) until at least 8 hours after the last biotin administration.