
Lab Dept: Chemistry

Test Name: ESTROGENS, TOTAL

General Information

Lab Order Codes: ESG

Synonyms: N/A

CPT Codes: 82672 – Estrogens; total

Test Includes: This test is specific for estrone and estradiol and does not measure estriol.

Logistics

Test Indications: N/A

Lab Testing Sections: Chemistry - Sendouts

Referred to: Esoterix, Inc (ESL Test: 500148)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 3 - 6 days

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST (Gold, marble or red) tube

Draw Volume: 3 mL (Minimum: 1.5 mL) blood

Processed Volume: 1 mL (Minimum: 0.5 mL) serum

Note: Minimum amount does not allow for repeat analysis.

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen, remove serum aliquot within 1 hour of draw. Place serum aliquot in a screw-capped round bottom plastic vial and freeze. Store and ship frozen. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range:

Newborns:

Markedly elevated at birth and falls rapidly during the first week to <25 pg/mL by seven days.				
30 Days – 11 Months:				
Male: Levels increase to 10 – 40 pg/mL between 30 to 60 days, then decline to <25 pg/mL by 12 months.				
Female: Levels increase to 10 – 60 pg/mL between 30 to 60 days, then decline to <25 pg/mL by 12 months.				
Prepubertal Children (1 - 10 years, Males), (1-9 years, Females)				
<25 pg/mL				
	Male		Female	
Tanner Stage	Age (years)	Estrogens (pg/mL)	Age (years)	Estrogens (pg/mL)
1	<9.8	10 - 38	<9.2	10 - 46
2	9.8 - 14.5	17 - 45	9.2 - 13.7	22 - 63
3	10.7 - 15.4	22 - 55	10.0 - 14.4	24 - 110
4	11.8 - 16.2	27 - 80	10.7 – 15.6	40 - 180
5	12.8 - 17.3	25 - 80	11.8 - 18.6	60 - 280
Adults:				
Males:			20 - 80 pg/mL	
Females:			Follicular: 60 - 200 pg/mL	
			Luteal: 160 - 400 pg/mL	
			Postmenopausal: <50 pg/mL	

Critical Values: N/A

Limitations: This test does not include the measurement of estriol.

Methodology: Radioimmunoassay (RIA) After Selective Solvent Extraction

References:

[Esoterix, Inc. Web Page](#) December 2017

Esoterix, Inc. "Expected Value & S.I. Unit Conversion Table" Fifth Edition

Updates:

3/8/2010: Reference range units changed from ng/dL to pg/mL. Ranges have been adjusted by a factor of 10.

12/14/2017: Collection container update.