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**Lab Dept:** Chemistry

**Test Name:** ESTROGENS, TOTAL

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***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.

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***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

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***Specimen***

**Specimen Type:** Blood

**Container:** Red top 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

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***Interpretive***

**Reference Range:**

**Newborns:**

Markedly elevated at birth and falls rapidly during the first week to <25 pg/mL by seven days.				
<b>30 Days – 11 Months:</b>				
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.				
<b>Prepubertal Children (1 - 10 years, Males), (1-9 years, Females)</b>				
<25 pg/mL				
	<b>Male</b>		<b>Female</b>	
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
<b>Adults:</b>				
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](#) October 2014

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.