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**Lab Dept:** Chemistry

**Test Name:** 17-OH PROGESTERONE, SERUM

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***General Information***

**Lab Order Codes:** 17OHP

**Synonyms:** Hydroxyprogesterone 17; Progesterone 17-OH; 17OHP

**CPT Codes:** 83498 – Hydroxyprogesterone, 17d

**Test Includes:** 17 OHP level reported in ng/dL.

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***Logistics***

**Test Indications:** Marker for adrenal (21-hydroxylase) enzyme deficiency

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Esoterix, Inc. (ESL Test: 500270)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 - 4 days, performed Monday - Friday

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

**Container:** SST (Gold, marble or red) tube

**Draw Volume:** 3 mL (Minimum: 0.3 mL) blood

**Processed Volume:** 1 mL (Minimum: 0.1 mL) serum

Note: Minimum volume does not permit repeat analysis.

**Collection:** Routine blood collection

**Special Processing:** Lab Staff: Centrifuge specimen within 1 hour of collection. Remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at frozen temperatures. Forward promptly.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimens

**Interpretive**

**Reference Range:**

<b>Premature Infants:</b>				
26 – 28 weeks, day 4		124 – 841 ng/dL		
31 – 35 weeks, day 4		26 – 568 ng/dL		
<b>Full Term Infants:</b>				
3 days		<78 ng/dL		
1 – 11 months		Male:		Female:
		Levels increase after the first week to peak values ranging from 40 – 200 ng/dL between 30 and 60 days. Values then decline to Prepubertal range for 1 year.		13 – 106 ng/dL
<b>Prepubertal Children:</b>				
1 – 10 years:		<91 ng/dL		
<b>Puberty:</b>		Male:		Female
Tanner Stage:	Age (yrs)	Range ng/dL	Age (yrs)	Range ng/dL
1	<9.8	3 – 90 Mean: 38	<9.2	3 – 82 Mean: 31
2	9.8 – 14.5	5 – 115 Mean: 51	9.2 – 13.7	11 - 98 Mean: 49
3	10.7 – 15.4	10 - 138 Mean: 57	10.0 – 14.4	11 - 155 Mean: 70

4	11.8 – 16.2	29 - 180 Mean: 80	10.7 – 15.6	18 - 230 Mean: 91
5	12.8 – 17.3	24 – 175 Mean: 97	11.8 – 18.6	20 - 265 Mean: 108
<b>Adults:</b>	Male:		Female:	
	27 – 199 ng/dL		Follicular:	15 – 70 ng/dL
			Luteal:	35 – 290 ng/dL

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** HPLC tandem mass spectrometry

**References:** [Esoterix, Inc. Web Page](#) July 2012

**Updates:**  
9/29/2009: Updated method, reference values  
5/5/2010: Updated CPT code.  
5/25/2017: Update CPT code.  
2/1/2018: Collection container update.