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**Lab Dept:** Chemistry

**Test Name:** PREGNENOLONE, SERUM

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***General Information***

**Lab Order Codes:** PREGN

**Synonyms:** N/A

**CPT Codes:** 84140 - Pregnenolone

**Test Includes:** Pregnenolone concentration reported as ng/dL.

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***Logistics***

**Test Indications:** An ancillary test for congenital adrenal hyperplasia, particularly in situations which a diagnosis of 21-hydroxylase and 11-hydroxylase deficiency have been ruled out. Confirming a diagnosis of 3-beta-hydroxy dehydrogenase deficiency.

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Clinic Laboratories (Mayo test: PREGN)

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 – 6 days, performed Monday, Tuesday, Thursday

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

**Container:** Preferred: Red NO GEL  
Alternate: SST (Gold or marble)

**Draw Volume:** 3.0 mL (Minimum: 1.5 mL) blood

**Processed Volume:** 1.0 mL (Minimum: 0.5 mL) serum

**Collection:** Routine blood collection

**Special Processing:** Lab Staff: Centrifuge specimen and remove serum aliquot into a screw-capped plastic vial. Store and ship at frozen temperatures. Forward promptly.

**Patient Preparation:** None

**Sample Rejection:** Specimens other than serum; mislabeled or unlabeled specimens

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***Interpretive***

**Reference Range:**

Age	Male (ng/dL)	Female (ng/dL)
0 – 6 years	Not established	Not established
7 – 9 years	<206 ng/dL	<151 ng/dL
10 – 12 years	<152 ng/dL	19 – 220 ng/dL
13 -15 years	18-197 ng/dL	22 – 210 ng/dL
16 – 17 years	17-228 ng/dL	22 – 229 ng/dL
Tanner Stages:		
Stage I	<157 ng/dL	<172 ng/dL
Stage II	<144 ng/dL	22 – 229 ng/dL
Stage III	<215 ng/dL	34 – 215 ng/dL
Stage IV-V	19 – 201 ng/dL	26 – 235 ng/dL
Adults		
≥18 years	33-248 ng/dL	33-248 ng/dL

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

**References:** [Mayo Clinic Laboratory](#) (August 2021)

**Updates:**

11/8/2017: Updated collection container

8/23/2021: Moved from ESL to Mayo