Lab Dept: Chemistry

Test Name: PREGNENOLONE, SERUM

General Information

Lab Order Codes: PRGNL

Synonyms: N/A

CPT Codes: 84140 - Pregnenolone

Test Includes: Pregnenolone concentration reported as ng/dL.

Logistics

Test Indications: Pregnenolone is the precursor (building-block) for all other steroid hormones. It is converted directly into DHEA and/or progesterone. DHEA converts to testosterone and estrogens; progesterone converts to estrogens, cortisol, and aldosterone.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Esoterix (ESL Test: 500258)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 3 – 6 days, performed Monday – Thursday, Saturday

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST (Gold, marble, red) tube

Draw Volume: 7.5 mL (Minimum: 3.5 mL) blood
Note: Minimum volume does not allow for repeat analysis.

Processed Volume: 2.5 mL (Minimum: 1.1 mL) serum
**Collection:** Routine venipuncture

**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

### Interpretive

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>Age</th>
<th>Range (ng/dL)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Premature (26-28 wks) Day 4</td>
<td>260 - 2104</td>
</tr>
<tr>
<td></td>
<td>Premature (34-36 wks) Day 4</td>
<td>203 - 1024</td>
</tr>
<tr>
<td></td>
<td>Neonates (1 – 7 days)</td>
<td>150 - 2000</td>
</tr>
<tr>
<td></td>
<td>Prepubertal</td>
<td>20 - 140</td>
</tr>
<tr>
<td></td>
<td>Pubertal and Adults</td>
<td>&lt;20 - 150</td>
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</tbody>
</table>

Levels decrease after birth and are within the prepubertal range of 20 – 140 by 3 months.

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** HPLC – Tandem Mass Spectrometry

**References:** [Esoterix Laboratory Services](#) November 2017

**Updates:** 11/8/2017: Updated collection container