

## **17-HYDROXYPROGESTERONE, SERUM**

### **#500050**

**NOTE:** The testing and reporting is equivalent to Rochester test 17-Hydroxyprogesterone, Serum #9231.

#### **USEFUL FOR:**

- The analysis of 17-hydroxyprogesterone is 1 of the 3 analytes along with cortisol and androstenedione, that constitutes the best screening test for congenital adrenal hyperplasia (CAH), caused by either 11- or 21-hydroxylase deficiency.
- Analysis for 17-hydroxyprogesterone (OHPG) is also useful as part of a battery of tests to evaluate females with hirsutism or infertility. Both can result from adult-onset CAH.

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

#### **REFERENCE VALUES:**

##### **CHILDREN**

Preterm infants:

Preterm infants may exceed 630 ng/dL, however, it is uncommon to see levels reach 1,000 ng/dL.

Term infants:

0-28 days: <630 ng/dL

Levels fall from newborn (<630 ng/dL) to prepubertal gradually within 6 months.

Prepubertal males: <110 ng/dL

Prepubertal females: <100 ng/dL

##### **ADULTS**

Males: <220 ng/dL

Females:

Follicular: <80 ng/dL

Luteal: <285 ng/dL

Postmenopausal: <51 ng/dL

#### **SPECIMEN REQUIREMENTS:**

Draw blood in a plain, red-top tube(s). Spin down and send 0.6 mL of serum refrigerated.

**Note:** Indicate patient's age and sex on request form.

#### **CAUTIONS:**

At birth the hypothalamic-pituitary-adrenal axis and the hypothalamic-pituitary-gonadal axis are activated and adrenal and sex steroid levels are high. In pre-term infants the elevations can be even more pronounced due to illness and stress. As a result, preterm infants may occasionally have OHPG levels of up to 1,000 ng/dL. Term infants (0-28 days) will have levels <630 ng/dL. These then fall over the following 1 to 6 months to prepubertal levels of <110 ng/dL (males) and <100 ng/dL (females).

**LIST FEE:** \$180.50

**CPT CODE:** 83498

**ANALYTIC TIME:** 1 day

**DAY(S) SET UP:** Mon-Fri, 1st Shift

**QUESTIONS:** Contact your Mayo Medical Laboratories' Regional Manager  
Mary Erath, Mayo Medical Laboratories' Technologist Support  
Telephone: 800-533-1710