

Freiburg Medical Laboratory ME LLC, P.O.Box 3068, Dubai

Tel: 04 396 2227

Fax: 04 396 2228



# Progesterone

The following tests are available:

### Progesterone in serum

#### General:

Progesterone is part of the hypothalamic-hypophyseal-ovarial feedback system. During luteinization, the follicular granulosa cells are activated by LH and produce progesterone. Progesterone has the effect that the proliferating endometrium transforms into a secretory endometrium with rise of the basal body temperature.

Indication: assessment of corpus luteum function, ovulation detection, course evaluation in

infertility therapy, anovulatory cycles, oligomenorrhea, progesterone defect,

recurrent abortion, threatening abortion.

Material: 1 ml serum

Stability: 5 days at 2 to 8°C

TAT: same day, FML

Method: ECLIA

Units: ng/ml

Ref.- range: see report

Note: If the patient is taking multivitamins or dietary supplements containing high dose

of Biotin (> 5 mg), the patient should stop taking it for at least 24 hours, before

having the blood collection.

## • 17-Hydroxy progesterone

#### General:

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Hydroxy progesterone is synthesized directly from progesterone or indirectly from 17-OH pregnenolone. As intermediate product of the glucocorticoid and sexual hormone production, hydroxyprogesterone is accumulated in deficiency of secondary enzymes (hydroxylases). In most cases the 21- hydroxylase is affected (congenital adrenogenital syndrome). Increased 17- hydroxy progesterone levels result in increased formation of androgens (DHEA and DHEAS). see also **Newborn screening** 

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Indication: Suspicion of adrenogenital syndrome (AGS), neonatal screening.

Material: 1 ml serum

Stability: 2 weeks at 2 to 8°C

Preanalytics: 1 ml of serum, dry blood on filter paper (for neonatal screening)

TAT: 7-10 days\*

Method: FIA

Units: ng/ml

Ref.- range: see report

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit <a href="http://www.fml-dubai.com/parameter-listings/">http://www.fml-dubai.com/parameter-listings/</a>

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