

NEW & IMPROVED

Vcheck eProgesterone

To predict estrus cycle and sufficient progesterone levels in mares

What is progesterone?

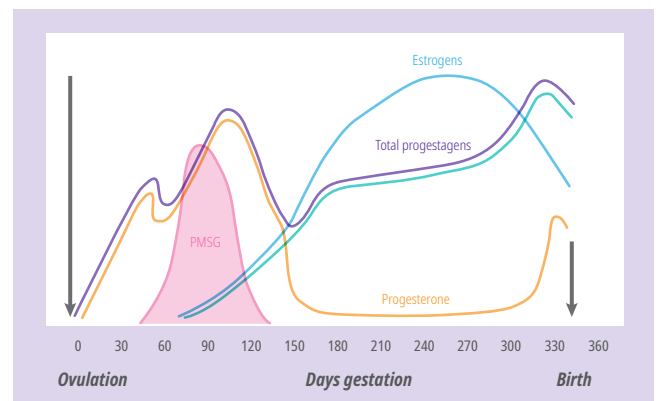
Progesterone is initially produced by the primary corpus luteum. It begins to increase after ovulation in diestrus, irrespective of pregnancy status, with the development of the corpus luteum ¹.

Progesterone plays a crucial role in the maintenance of pregnancy until 120 days of gestation when the placenta becomes the main source ^{2,3}.

Clinical Application

A progesterone concentration of 2 ng/mL is considered the minimum endogenous amount necessary to support pregnancy.

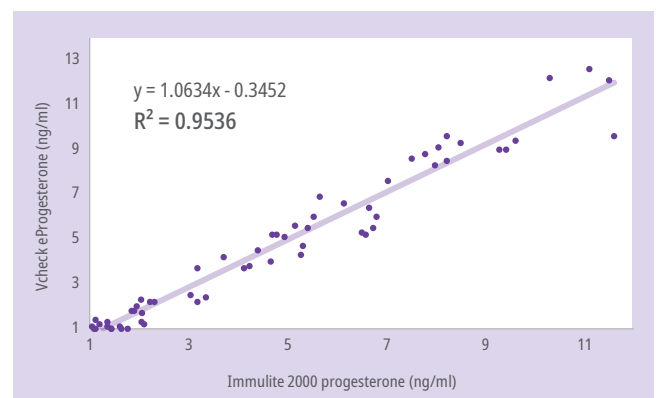
Generally, progesterone concentration below 2 ng/ml in the blood is associated with embryonic loss, whereas a concentration above 4 ng/ml is considered to be adequate to maintain pregnancy ^{2,4}.



Hormone levels and corresponding ovarian activity in mares ^{5,6}

Evaluation data

Vcheck eProgesterone has a strong correlation ($R^2=0.9536$, $y=1.0634x-0.3452$) with the reference method (chemiluminescent assay), which has been used in reference laboratories.



Reference

1. Kelleman AA, Act D. Equine pregnancy and clinical applied physiology. In: Proceedings of the 59th Annual Convention of the American Association of Equine Practitioners (AAEP); 7-11 December, 2013. Nashville, Tennessee, USA. pp. 350-358 2. Grabowska A, Kozdrowski R. Relationship between estrus endometrial edema and progesterone production in pregnant mares two weeks after ovulation. BMC Veterinary Research. 2022 Nov;18(1):414. 3. Allen W. Luteal Deficiency and Embryo Mortality in the Mare. Reproduction in Domestic Animals 2001;36. <https://doi.org/10.1046/j.1439-0531.2001.00312.x>. 4. Shideler RK, Squires EL, Voss JL, et al. Progesterone therapy of ovariectomized pregnant mares. J Reprod Fertil Suppl 1982;32:459-464. 5. Michelle LeBlanc, Cheryl Lopate and Derek Knottenbelt. Pregnancy Chapter 7. Posted in Jun 18, 2016. Veterian Key. 6. Equine Female Reproductive Testing. Animal Health Diagnostic Center (AHDC), Cornell University College of Veterinary Medicine.

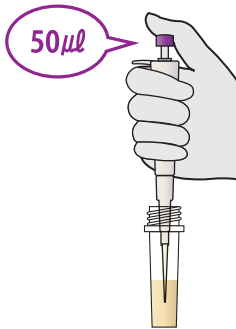
Vcheck eProgesterone

specifications

- Species: Horse
- Sample: Serum, Plasma(Heparin)
- Testing time: 15 minutes
- Measurement Range: 1~30 ng/ml
- Storage Condition: 2~8°C



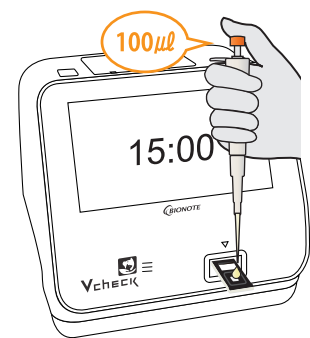
Add 50 µl of the sample to the assay diluent tube (100 µl)



Mix thoroughly with 5~6 pipetting



Add 100 µl of the mixed sample into the test device



> 2 ng/ml

High (gestation)

≤ 2 ng/ml

Low

Features



Sample
**Serum, Plasma
(heparin) 50 µl**



Measurement Range
1 - 30 ng/ml



Test time
15 minutes

Ordering Information

Product No.	Product Name	Storage temperature	Packing Unit
VCF142DC	Vcheck eProgesterone	2~8 °C	5 Tests/Kit



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