canine Progesterone
VET test kit

For veterinary use only!
Veterinary test kit for quantitative in vitro determination of canine Progesterone in serum or lithium heparin plasma on a Micro-Cube analyser

MicroVet Diagnostics
11210 Asheville Hwy Suite 1
Inman, SC 29349, USA

Tel. 800.640.7780
Fax 864.382.3131
www.microvetdiagnostics.com

Order information
Order number: C50230
Order number: C52300

Indication
canine Progesterone VET test kit
canine Progesterone VET control kit

Kit size
6 tests
1 x 2 ml (decision level)

Test kit preparation: Allow single test at least 10 minutes to warm up to room temperature (20 - 25 °C) by placing the test into the test kit rack. Put test kit package back into refrigerator.

Summary
Progesterone (P4) is an androgen produced by the corpus luteum of bitches. Normally present in low doses in non-pregnant bitches, in dogs, levels of progesterone start to climb around the time of the LH peak. Thus, the production of progesterone by the follicle begins prior to ovulation at the end of proestrus and reaches increased levels in peripheral blood plasma at the time of ovulation. In females, the measurement of progesterone is useful in evaluating the status of ovarian functions, monitoring of progesterone therapy and early stage pregnancy evaluations.

Method
Homogeneous immunoturbidimetric test.

Measurement Range
When using a 40 µl pipette: 1.2 - 8.0 ng/ml (3.8 - 25.4 nmol/l)

When using a 5 µl pipette: 6.0 - 20.0 ng/ml (19.1 - 63.6 nmol/l)

Sample Material
Serum or li-hep plasma. Sample volume according to the menu settings on the laboratory photometer and according to the use of a 40 µl or 5 µl pipette.

Test Kit
R1 cuvette filled with buffer reagent
R2 cap filled with antibody reagent

Stability and Storage
Stable until the expiration date stated on the label when stored in unopened vacuum package at 2 – 8 °C. Opening the vacuum package may limit the reagent stability to 3 months (stored at 2 – 8 °C) from the date of opening. DO NOT FREEZE!

Warnings and Precautions
DO NOT INGEST! Avoid contact with skin and eyes. Observe all necessary precautions for the use of laboratory reagents.

Waste Management
Please refer to local legal requirements.

Decision Limits
Dog: 4 – 8 ng/ml (12.7 - 25.4 nmol/l) (Ovulation)

It is recommended that each laboratory establishes its own decision limits.

Quality Control
For internal quality control the MVD canine Progesterone VET control kit is recommended. Order number: C52300

Precision
Reproducibility within-run:
Control; N = 20; mean = 3.5 ng/ml; CV = 9.57%

Correlation
Canine sample correlation: N = 50

y (MVD progesterone) = 1.0098x (Immulite progesterone) - 0.0028; R^2 = 0.945;

Interferences
The test system has been analysed for various interferences. Criterion was the recovery within 15% of initial values

Haemoglobin	525 mg/dl
Human albumin	12 g/dl
Bilirubin (conjugated)	72 mg/dl
Bilirubin (unconjugated)	72 mg/dl
Cholesterol	620 mg/dl
Rheumatoid factor	1080 IU/ml
Triglycerides	835 mg/dl
Uric acid	30 mg/dl

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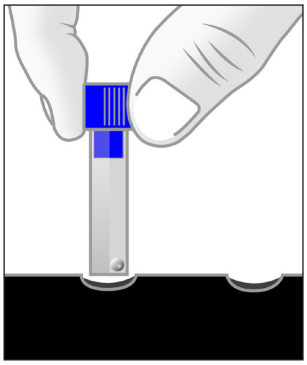
Processing of a canine Progesterone VET test

1.

1.1



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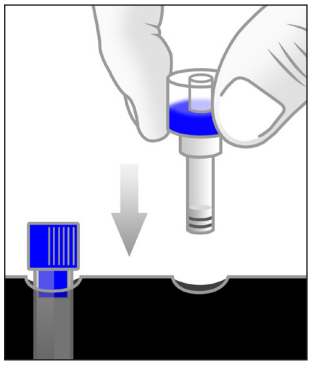

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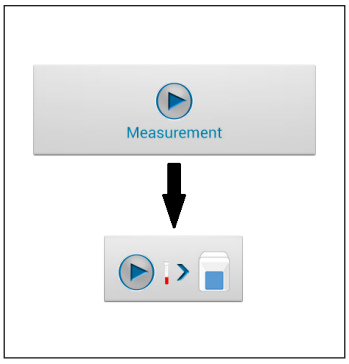
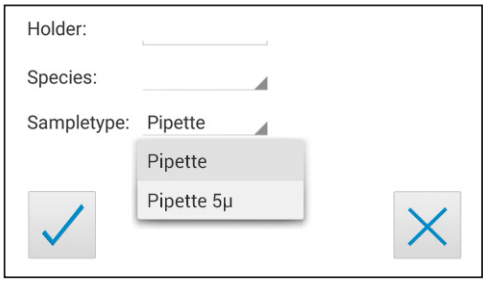


1.4

2.



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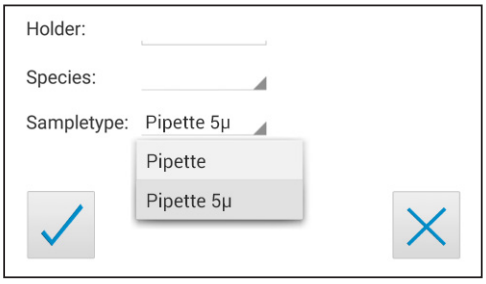

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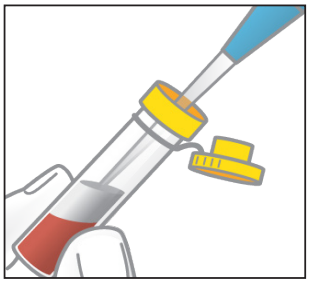
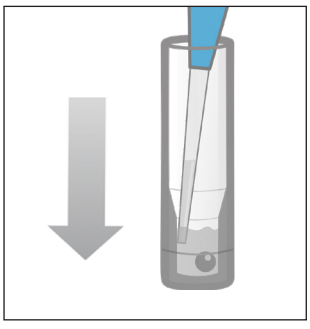


2.2

3.



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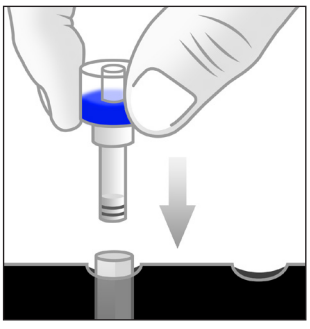

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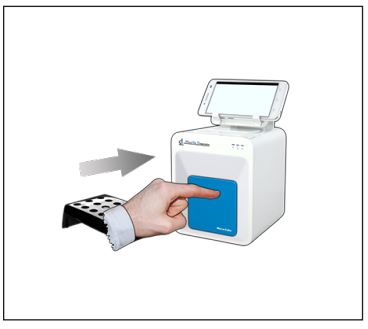

3.4

ATTENTION!

Allow single test at least 10 minutes to warm up to room temperature (20 - 25 °C) before use!

1. Preparation of test system

1.1 Place RFID card

1.2 Place R1 cuvette in test kit rack

1.3 Place R2 cap in test kit rack

1.4 Press „Measurement“ button, enter required information using the touchscreen

2. Sample preparation

Choose sample type:

2.1a *„Pipette“* for measurement range: 1.2 - 8.0 ng/ml (3.8 - 25.4 nmol/l)

OR ...

2.1b *„Pipette5µ“* for measurement range: 6.0 - 20.0 ng/ml (19.1 - 63.6 nmol/l)

2.2 Aspirate 40 µl **OR** 5 µl sample material from centrifuged sample tube

3. Sample processing

3.1 Dispense sample INTO THE LIQUID in the R1 cuvette

3.2 Apply R2 cap firmly onto R1 cuvette

3.3 Place assembled cartridge into laboratory photometer

3.4 Start automatic sample processing by closing the door of the Micro-Cube laboratory photometer.