

cCRP VET test kit



For veterinary use only!

Veterinary test kit for quantitative in vitro determination of canine CRP in serum, EDTA or lithium heparin plasma on a Micro-Cube analyser

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Order information

Order number: C50100
Order number: C50101
Order number: C51000

Indication

cCRP VET test kit
cCRP VET test kit
cCRP VET control kit

Kit size

16 tests
6 tests
1 x 0.5 ml (high 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

This veterinary in vitro test kit is designed to measure canine C-reactive protein (cCRP) in serum and plasma. C-reactive protein (CRP) is an acute phase protein. The serum level of CRP rises in animals that suffer from different types of infection or inflammation. It correlates with degree and activity of the causative disease. Measurements of serum CRP are used to aid the evaluation of the inflammation associated with infection, tissue damage and other clinical disorders. Increased levels of CRP were described in dogs that suffered from pneumonia, pyometra, pancreatitis, parvovirus infection or traumatism. Dogs with an increased number of leukocytes had significantly higher CRP levels than dogs with noninflammatory leukograms. Elevated CRP levels were also found in dogs with arthritis, thrombophlebitis or proctitis and in dogs infected with *Bordetella bronchiseptica* or *Ehrlichia canis*.

Method

Immunoturbidimetric determination at 546 nm of the sample turbidity which is proportional to the concentration of cCRP present in the original specimen.

Measurement Range

10 - 200 mg/l (1 - 200 mg/dl) (Lot dependent)

Samples with concentrations higher than the upper limit of the measurement range must be diluted 1 + 4 with physiological saline (0.9% NaCl solution), e.g. 20 µl sample + 80 µl 0.9% NaCl solution, and the result then multiplied by 5.

Values up to 800 mg/l show no prozone effect.

Sample Material

Use 5 µl serum, lithium heparin plasma or EDTA plasma. Sample stability testing showed that cCRP (in serum) was stable for two weeks when stored at 2 - 8 °C.

Test Kit

R1 cuvette filled with buffer reagent.
R2 cap filled with immunoparticles.

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 three 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.

Reference Range

Dog: < 10 mg/l (< 1 mg/dl)¹

It is recommended that each laboratory establishes its own reference range.

Quality Control

For internal quality control the MVD cCRP VET control kit is recommended. Order number: C51000

Precision

Reproducibility within-run:
Dog serum; N = 20; mean = 77 mg/l; CV = 4.7%;

Correlation

Correlation with Gentian cCRP;
42 samples splitted in serum and lithium heparin plasma:
 y (MVD cCRP) = 1.019 x (Gentian cCRP) - 0.76;
 $R^2 = 0.98$;

Interferences

The test system has been analysed for various interferences. Criterion was the recovery within 10% of initial values.

Haemoglobin	500 mg/dl
Intralipid	1000 mg/dl

References

- HILLSTRÖM, A., HAGMAN, R., SÖDER, J., HÄGGSTRÖM, J., LJUNGVALL, I., KJEL GAARD-HANSEN, M. (2015) Validation and application of a canine-specific automated high-sensitivity C-reactive protein assay

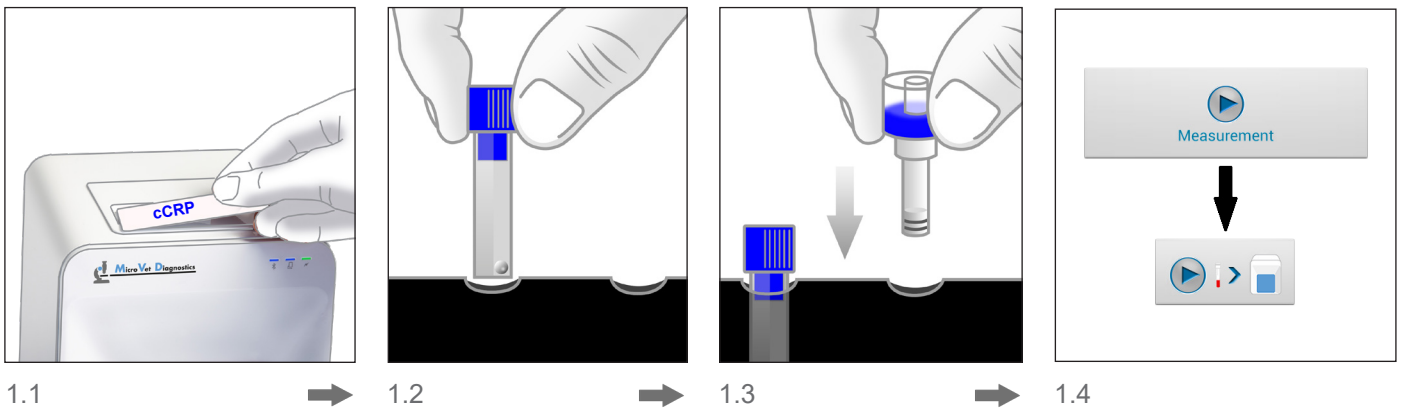


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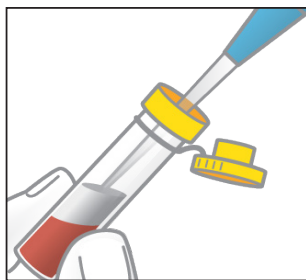
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Processing of a cCRP VET test

1.

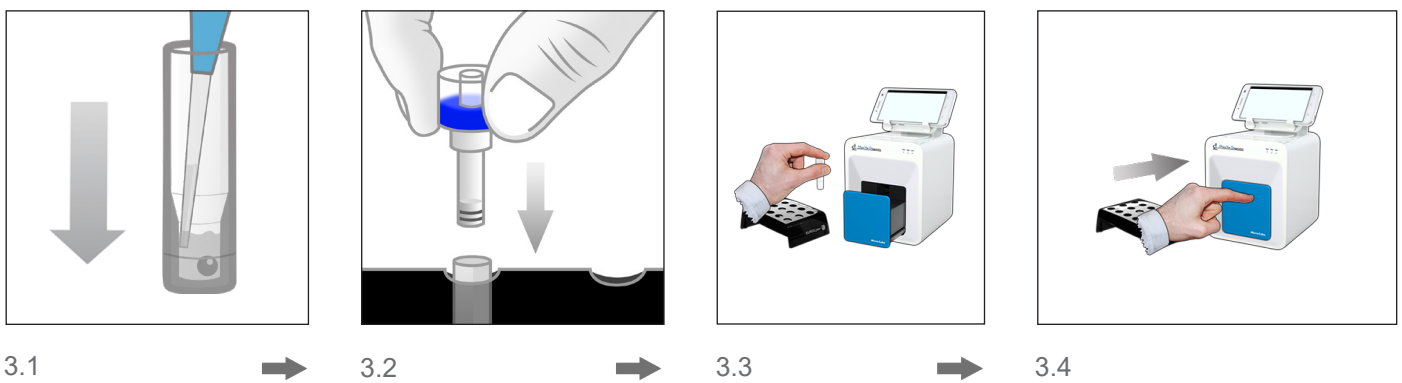


2.



2.1

3.



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

- 2.1 Aspirate 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.