QuickVet®
Analyzer

QUICKVET® CANINE FIBRINOGEN TEST

EASY AND RAPID FIBRINOGEN TEST

- **In clinic use** – Test results at the patient side
- **Ease of use** – Four easy and fast steps to get a result
- **Fast and convenient** – Test time less than 12 minutes
- **Accurate and reliable results** – Test precision comparable to laboratory results
- **State-of-the-art** – Unique test cartridge based on lab-on-a-chip technology

QuickVet® test cartridge
Each QuickVet® cartridge, representing state-of-the-art technology, has a label stating what kind of test the cartridge performs, a sample well for adding the diluted plasma, several micro channels and two optical detection windows.

DIAGNOSE INFLAMMATION IMMEDIATELY

The QuickVet® Canine Fibrinogen Test allows the veterinarian to determine the concentration of plasma fibrinogen in dogs. Quick and accurate diagnosis is essential for successful outcome of treatment.

Fibrinogen is an acute phase protein in dogs. Elevated levels of fibrinogen indicate a degree of systemic inflammatory response. Increase in fibrinogen concentration is related to the magnitude of inflammation, and often occurs before clinical evidence of disease. Low level of fibrinogen (hypofibrinogenemia) may indicate disseminated intravascular coagulation (DIC), potential bleeding or liver problems.

HOW TO PERFORM A TEST

Four simple and fast steps are all you need to perform a QuickVet® Canine Fibrinogen Test: **Spin sample down to plasma › Dilute the plasma in the pre-filled vial › Add the sample to the cartridge › Read result.**

Total test time is less than 12 minutes. The actual time depends on the sample and ambient temperature where testing. Test results obtained under normal operating conditions have an accuracy comparable with results from a veterinary diagnostic laboratory. Results are reported as g/L or mg/dL.

ADD SAMPLE . READ RESULT

zoetis

FIBRINOGEN

Fibrinogen is an essential component of the hemostatic process. Fibrinogen concentration in blood may be increased in response to inflammation or reduced due to consumption. In coagulation, fibrinogen is converted to fibrin under the influence of thrombin, in the process of building the hemostatic plug. [1,2,3,4,5]

Some common causes of decreased fibrinogen concentration are increased consumption during localized or disseminated intravascular coagulation (DIC), severe hepatic dysfunction, and hemodilution.
Low plasma fibrinogen concentration is associated with an increased risk of bleeding due to impaired primary or secondary hemostasis.

Fibrinogen plasma concentration normally increases within 24 to 48 hours in response to inflammation.
When measured in citrated plasma, a level above the normal range of 1.2 – 3.0 g/L indicates a systemic inflammatory response. Levels below 1.2 g/L indicate a potential case of hypofibrinogenemia.

FIBRINOGEN DECREASE CAN BE DETECTED IN FOLLOWING CASES:

- Indication of disseminated intravascular coagulation (DIC)
- Potential bleeding
- Liver problem

FIBRINOGEN INCREASE CAN BE DETECTED IN FOLLOWING CASES:

- Viral and bacterial infections
- Kidney disease
- Post-abortion
- Traumatic injuries
- Surgery
- Cancer
- Heart disease
- Canine pregnancy

Bibliography

1. Jensen T, Halvorsen S, Godal HC, Sandset PM, Skjøonsberg OH. 2000. Discrepancy between fibrinogen concentrations determined by clotting rate and clottability assays during the acute-phase reaction. Thromb Res 100:397–403.
2. Stockham SL, Scott MA. 2008. Hemostasis, p 271–286. In: Stock- ham SL, Scott MA, editors. Fundamentals of veterinary clinical pathology, 2nd ed. Ames (IA): Blackwell.
3. Verhovsek M, Moffat KA, Hayward CP. 2008. Laboratory testing for fibrinogen abnormalities. Am J Hematol 83:928–931.
4. Stockham SL, Scott MA. 2008 . Major bleeding disorders: Findings and Pathogenesis, p. 300-321. In: Stockham SL, Scott MA, editors. Fundamentals of veterinary clinical pathology, 2nd ed. Ames (IA): Blackwell.
5. Kum C, Voyvoda H, Sekkin S, Karademir U, Tarimcilar T. (2013) Am J Vet Res. Effects of carprofen and meloxicam on Creactive protein, ceruloplasmin, and fibrinogen concentrations.

THE QUICKVET® CANINE FIBRINOGEN TEST

Each QuickVet® Test cartridge is labeled with the test type and individually packaged in a sealed pouch with a desiccant. A disposable pipette tip and a prefilled vial are supplied with each test.

- For use with the QuickVet® Analyzer
- Practical one time use only cartridge
- No cleaning or regular maintenance required
- Unambiguous results in 12 min.

QuickVet®

Zoetis Denmark ApS
Gammelgaardsvej 87C · DK-3520 Farum · Denmark
Email: SMB-INFO@zoetis.com · Website: www.quickvet.net

EU version

zoetis