



The right value of your animals!



 HEMOCUE®





Correct results – when and where you need them

Quick analysis systems and accurate results enable immediate and well-founded decisions on what action must be taken. Your patients receive professional treatment and proper care without unnecessary waiting.

Our systems make it easy to measure hemoglobin (HemoCue® Hb 201+) or determine the total white blood cell count (HemoCue® WBC) to quickly detect and diagnose bacterial infections. Together, the values give you a good picture of the animal's state of health.

Why choose HemoCue?

- **IMMEDIATE RESULTS.** Test results in just a few minutes makes quick diagnosis possible.
- **SIMPLE TO USE.** Saves time, effort and money.
- **MAXIMUM FLEXIBILITY.** Portable instruments that are easy to carry.
- **STABLE MEASUREMENT RESULTS.** Accurate results for accurate treatment.

When performing veterinary work, being able to analyze blood samples wherever you are getting the results in just a few minutes makes the work more efficient. Meet four veterinarians with different types of practices who all think that using HemoCue® analysis systems is a big advantage in their work.

They value efficiency and high-quality care

1 QUICK WBC – BIG ADVANTAGE FOR MOBILE SERVICES

Anders Edman is a veterinarian with a practice in Axvall, just east of Skara. He also has a mobile service, where he makes house calls to mares being inseminated, foals and trotting horses. He thinks that a blood test always fills out the clinical picture.

“By experience I know what is likely or not. I don’t need all values that are possible to analyze. It is valuable to add the total white blood cell count (WBC) to the clinical picture. I sometimes supplement with hemoglobin (Hb). I think being able to get a WBC quickly is a big advantage for mobile services. It gives me better foundation for deciding whether to treat with antibiotics or not. If I’m in doubt about how to treat a horse, I don’t have to postpone treatment until the test results come back from the lab.”

“Being able to get a WBC quickly is a big advantage for mobile services.”

2 CONFIRMS CLINICAL ASSESSMENT

Charlotta Oscarsson runs a small animal practice in Kinna, where she treats dogs and cats. She uses HemoCue® Hb 201+ and HemoCue® WBC. It confirms her clinical assessments. Before she had the HemoCue® Hb 201+, a dog was brought in that seemed to be really sick. It had vomited and was extremely pale. The owner did not agree. He thought the dog had a gastrointestinal infection and simply needed antibiotics. After a tough discussion, Charlotta Oscarsson was allowed to send in a sample for testing. The results showed that the dog was severely anemic. It had a severe kidney injury and had to be put to sleep a short time later.

“If I had been able to do the test myself – at a lower cost for the owner – I would have been able to show at once that the dog was seriously ill,” she says.

As Charlotta Oscarsson performs a lot of surgery, she considers it valuable to be able to check Hb before and after surgery. It provides an extra degree of security, particularly if there is an increased risk of hemorrhaging.



Surgery day at Charlotta Oscarsson's practice in Kinna. Here, she examines a little female cat that is scheduled for spaying.



Anders Edman takes a Hb for one of the horses of the Axevalla harness racing track. To keep the horses as calm as possible, it is important to have routines. That is why he always takes samples in the morning and lets the groom hold the horse.

3 ACCURATE RESULTS THROUGH SIMPLE ANALYSIS

Anna Persson is a district veterinarian in Hede who primarily works with dogs, cats and horses. When an animal with an impaired general state is brought in and she suspects some type of infection, she uses HemoCue® Hb 201+ together with HemoCue® WBC.

"Last week, an uninsured cat was brought in to the practice. The only thing that was abnormal was an elevated WBC. I gave him antibiotics. I wouldn't have done that without the WBC results and now he's perfectly healthy again."

Anna Persson used to send samples to a hospital laboratory in Sveg. The disadvantages were that it took time to get the results in addition to higher costs for the animal's owner.

"HemoCue®'s instruments are so incredibly simple to use. At first, we sent out samples for parallel analysis results. But, since the results always checked out, we stopped this practice."

"I don't know what we would have done without a HemoCue® Hb analyzer. Probably been waiting for test results to come back from a lab."

4 ON-SITE RESULTS MAKE WORK MORE EFFICIENT

With the breeding methods used nowadays, piglets often suffer from iron deficiency. They get very little iron from sow milk and anemic piglets become weak and sensitive to infection.

Naturally, the best solution is to give each piglet an iron injection, but that takes time. Other methods are to give iron in pellets or in enriched water or to let the piglets root in iron-rich peat. But, in order for that to work, there must be a separate piglet corner and the boxes must not have deep bedding. Even if these criteria are fulfilled, you cannot be sure that the piglets are ingesting enough iron.

"You simply don't know how much the piglets ingest. It is therefore necessary to check the Hb of the litter to ensure that their iron needs are met," says Carl-Johan Ehlorsson, swine health veterinarian at Svenska Djurhälsövården in Ängelholm.

Because the Hb results are ready in just a few minutes, supplementary iron injections can be given immediately.

"We've been using a HemoCue® Hb analyzer as long as I can remember and I don't know what we would have done without it. Probably been waiting for test results to come back from a lab," says Carl-Johan Ehlorsson.



Results for maximized horse-power

The competition in horse racing is fierce. Peak performance is required on race day. HemoCue® analysis systems give an indication of the horse's state of health in just a few minutes. This way, the horse does not have to be subjected to tough workouts, competition and long stressful transports unnecessarily.

- HemoCue® WBC quickly detects whether the horse has an elevated white blood cell count and infection in the body.
- HemoCue® Hb 201+ enables easy detection of anemia. It also enables detection of abnormally high Hb values, which could be an indication of polycythemia if the horse performed well and then suddenly worsened.

Horse blood samples that are analyzed using HemoCue® Hb 201+ and HemoCue® WBC produce results comparable to reference methods at the laboratory.

BEAR IN MIND:

Since both the total white blood cell count and Hb vary between individuals, it is important to determine the normal values for each individual in order to detect deviations. This can be done, for example, by analyzing a sample taken on three occasions when the horse is healthy. To reduce the risk of stress affecting the results, it is a good idea for the samples to be taken by the same person in the same way each time.

The max Hb results are better indicators than the resting Hb results. When at rest, horses store 80 percent of the hemoglobin in the spleen. At the first sign of stress, the hemoglobin is pumped out into the blood, making it hard to know if you are in fact measuring resting Hb. To measure max Hb, have the horse work hard for a period – so that in principle all of the Hb is circulating in the blood – before taking the sample.





Correct results for precious friends

HemoCue® Hb 201+ and HemoCue® WBC quickly give a picture of the dog's or cat's state of health. When added to the clinical picture, the analysis results help to quickly make the right diagnosis. It is only if any of the values are abnormal that more extensive investigation becomes necessary.

HemoCue® analysis systems give laboratory-quality results immediately and at a lower cost than laboratory analysis. There are several advantages:

- Eliminating the work associated with sending samples to a laboratory.
- The animal's owner does not have to pay for extensive analyses unnecessarily.
- Your patient can start any necessary treatment immediately.

Cat and dog blood samples that are analyzed using HemoCue® Hb 201+ and HemoCue® WBC produce results comparable to reference methods at the laboratory.

BEAR IN MIND:

On dogs with a short, powerful neck and lots of loose skin, the vena cephalica on the front leg is a good spot for taking blood samples. A good-quality blood sample can also be obtained from the jugular vein.

Another method is to take a capillary sample from the inside of the lower lip. HemoCue® analysis systems work just as well with capillary blood samples as with venous samples.





Small analyzer with great value in modern animal husbandry

Cow and pig blood samples that are analyzed using HemoCue® Hb 201+ and HemoCue® WBC produce results comparable to reference methods at the laboratory. The advantage is to get the results on site while still with the livestock, enabling immediate decisions on what action must be taken.

In pig herds where piglets are given an iron supplement orally, it is important to find out if they are ingesting the iron. HemoCue® Hb 201+ is a valuable aid for quickly and simply checking the herd's Hb levels and for checking whether the supplement is producing the desired effect. If the Hb levels are too low, the piglets can be given supplementary iron injections directly. HemoCue® Hb 201+ is also an aid in quickly and easily detecting anemia in cows.

HemoCue® WBC is a good tool for quickly finding out if infections of cows and pigs are bacterial and can thus provide the right information for deciding whether treatment with antibiotics is necessary.

BEAR IN MIND:

- The ear vein is a good spot for taking blood samples on pigs.
- For cows that are standing in a stable, the tail vein is a practical and good alternative for blood sampling.



HemoCue[®] Hb 201+

PRINCIPLE: Sodium deoxycholate hemolyzes erythrocytes (red blood cells) and hemoglobin is released. Sodium nitrite transforms hemoglobin into methemoglobin, which with sodium azide produces sodium azide-saturated hemoglobin. Absorbance is measured at two wavelengths (570 and 880 nm) to compensate for any sources of turbidity.

MEASUREMENT TIME: Results within 15-60 seconds

SAMPLE MATERIAL: Capillary or venous blood

SAMPLE VOLUME: 10 μ L

QUALITY CONTROL: Built-in self-test

DIMENSIONS: 85 × 160 × 43 mm (3.35 × 6.30 × 1.69 in)

WEIGHT: 350 g (0.77 lbs) with batteries

POWER SUPPLY: AA batteries or adapter



HemoCue® WBC

PRINCIPLE: A hemolyzing agent lyses the red blood cells in the microcuvette and the white blood cells are stained. An image of the stained white blood cells is generated and the white blood cell count is obtained through image analysis in the instrument.

MEASUREMENT TIME: 3 minutes

SAMPLE MATERIAL: Capillary or venous blood

SAMPLE VOLUME: 10 μ L

QUALITY CONTROL: Built-in self-test

DIMENSIONS: 185 × 133 × 120 mm (7.28 × 5.24 × 4.72 in)

WEIGHT: 600 g (1.32 lbs) with batteries

POWER SUPPLY: AA batteries or adapter



Three simple steps

– regardless of system used



1.

The microcuvette is automatically filled with the right amount of blood.



2.

Place the microcuvette in the instrument.



3.

Read the results on the digital display.

Analyzing blood samples with a HemoCue® system is so simple that anyone can do it after a short demonstration.

However, experience from human medicine has shown that analysis results are never better than the sample analyzed. No matter which analysis method is used, it is important that the sample is taken correctly.

There are different ways of taking blood samples for different types of animals. Whatever the method chosen, it is important to do it the same way each time when possible.



You can now get your patients' results quickly – anytime and anywhere!

- IMMEDIATE RESULTS. Test results in just a few minutes makes quick diagnosis possible.
- SIMPLE TO USE. Saves time, effort and money.
- MAXIMUM FLEXIBILITY. Portable instruments that are easy to carry.
- STABLE MEASUREMENT RESULTS. Accurate results for accurate treatment.

HemoCue® has been developing and selling analysis instruments for use in human medical care since the 1980s. The first system was designed for measuring hemoglobin levels in the blood. Since then, the range has expanded with blood analysis instruments for glucose and total white blood cell count (WBC) as well as an instrument for measuring albumin in urine. Our products have a solid reputation and are highly utilized in medical treatment and at blood banks.

We guarantee that our products have been tested on animals. We simply tested them on humans first.

