GLUCO CALEA

wellion®

vet

THE BLOOD GLUCOSE METER FOR
DOGS • CATS • HORSES

For safety and accuracy
We endeavour to make life easier for patients and partners.

Through innovative ideas, advice and service.

Werner Trenker, CEO
The first step towards managing diabetes in dogs and cats is to understand the disease. The more you know about diabetes, the better you'll be able to work with your veterinarian to successfully manage your pet's health. It is important to know, that the symptoms of diabetes are similar for humans and animals, but special calibrated devices are required for testing blood sugar levels.

6 out of 500 cats and 3 out of 500 dogs are type 1 or type 2 diabetic.
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TYPE 1 and TYPE 2 diabetes in animals

**TYPE 1**

*Insulin-dependent diabetes*

*Most common in dogs*

**Increased risk:**

- Middle aged to older dogs
- Unspayed female dogs
- Obesity
- Breeds genetic predisposed to diabetes

**TYPE 2**

*Therapy through diet only or combined with insulin*

*Most common in cats*

**Increased risk:**

- Older cats
- Neutered male cats
- Obesity
- Indoor lifestyle
- Physical inactivity

**Additional risk factors:** increasing age, gender, being neutered, physical inactivity, drugs: glucocorticoid and progestin administration, body condition score - obesity

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**TYPE 1 & TYPE 2**

*Secondary diabetes*

*in horses*

**Diseases that lead to diabetes in horses**

- Hyperfunction of adrenal gland (*Cushing syndrome*)
- Obese horses that get food rich in proteins and energy and have a lack of activity (*Metabolic syndrome*)
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### Different calibration in blood glucose meters for humans and animals

If you use a blood glucose meter for human blood for a cat, a dog or a horse this can lead to inaccurate test results meaning that the results shown on the screen could be too low.

A blood glucose meter for humans is calibrated for human blood parameters and will evaluate human blood sugar. This result differs from the result in cats, dogs or horses. For obtaining a reliable result for your pet you should use a blood glucose meter calibrated for animals.

Your Wellion GLUCO CALEA blood glucose meter respects all these differences and is calibrated especially for cats, dogs and horses.

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Blood in humans and animals is different!

The distribution of glucose in the blood of humans and animals is different. On the one hand humans and animals have a different PCV (packed cell volume, hematocrit) – humans: 37-50%, dog: 37-55%, cat: 24-45%, horse: 24-48%, that means that the number of red blood cells differs a lot between the species.

There is also a huge variation between the size of the red blood cells between the species causing a different distribution of glucose in plasma. For example in humans the percentage of glucose in the red blood cells is 42% whereas 58% of the glucose is situated in plasma.

In cats (less and smaller red blood cells) there is only 7% of the glucose in the red blood cells and the majority of about 93% of the glucose is located in plasma.

**Why a blood glucose meter special for dogs, cats and horses?**

**CAT**
About 93% of the glucose is located in plasma and 7% of the glucose in the red blood cells

**DOG**
About 87.5% of the glucose is located in plasma and 12.5% of the glucose in the red blood cells

**HUMAN**
About 58% of the glucose is located in plasma and 42% of the glucose in the red blood cells
Comparison measurement between Wellion GLUCO CALEA and 3 blood glucose meters for humans towards a laboratory device

*Blood glucose meters dedicated to humans showed partly huge deviations!*
Safety and accuracy – these requirements are met by the innovative Wellion GLUCO CALEA blood glucose meter.

The Wellion GLUCO CALEA has been developed especially for dogs, cats and horses. In order to produce a correct result, 3 different code chips come with the test strips and can easily be replaced.

Furthermore an eject button facilitates every day’s life with the blood glucose meter.
The easy handling of the Wellion GLUCO CALEA meter disburdens life with a diabetic pet. An additional benefit is provided by perfect legible digits on the back-lit display.

The GLUCO CALEA test strips can be easily removed by means of an eject button.

Four individually settable alarms remind times for blood glucose testing on a regular base, so diabetes therapy will turn out to be a daily routine in your pet’s life.

Successful diabetes management is achieved through compliance with your pet’s treatment plan, blood glucose monitoring and follow-up consultations with your veterinarian. Average results in the meter memory of the Wellion GLUCO CALEA provide important information for further therapy of your pet.

The Wellion GLUCO CALEA blood glucose meter makes life easier for you and your pet.
SPECIAL FOR DOGS, CATS AND HORSES

EASY HANDLING

BIG, CLEARLY LEGIBLE DIGITS

EJECT BUTTON

BACK-LIT DISPLAY

HYPO- AND HYPERALARM

4 ADJUSTABLE ALARMS

AVERAGES

5 SECONDS MEASUREMENT TIME

300 RESULTS IN MEMORY

0,5 MICROLITRES OF BLOOD

1000 MEASUREMENTS BATTERY LIFE

1X CR2032 COIN BATTERY

Wellion GLUCO CALEA - for safety and accuracy
Diabetes differs from one animal to the other. For that reason it is important to recognize symptoms at an early stage and discuss the findings with the veterinarian. If there is a suspicion for diabetes further medical examinations should be performed. When diabetes is detected at an early stage, short- and long term complications of diabetes can be prevented.

Regular blood glucose measurements play an important role in successful treatment of diabetic patients. Blood glucose monitoring should be performed under familiar conditions in a home setting. It reduces stress and it provides your veterinarian with accurate data to improve the diabetes treatment plan.

The Wellion GLUCO CALEA has been developed specially for dogs, cats and horses. Every species requires a special code chip for precise glucose results.
Is your pet diabetic?

Recognize the warning signals!

- Increased thirst
- Frequent urination
- Excessive hunger
- Lack of energy
- Weight loss in spite of good appetite

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Several factors can influence blood glucose results in pet patients. Cats are easily stressed by transportation to the veterinarian, examinations and other unusual actions. Stress-induced hyperglycemia may cause serum glucose elevations and results in falsely elevated blood glucose level tests. Therefore, diagnosis of diabetes cannot be simply based on one single blood glucose measurement.

Elevation of blood glucose levels in dogs could be influenced by diverse concurrent problems for example by other hormonal diseases, in chronic pancreatitis or by long term glucocorticoid administration. When blood sugar levels of your pet are measured under relaxed and familiar conditions at home, the results are much more reliable causing less stress for the pet as well as for the owner.

Periodic reevaluation is necessary to ensure that the disease is under control. Based on this reevaluations, you may have to change your pet’s treatment regimen over time. Results of the Wellion GLUCO CALEA meter are accurate for veterinarian purposes.

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**Why is it important to measure blood glucose under home conditions?**

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**Important!**

Do not worry when your pet is diagnosed by diabetes.

Active home care with regular professional examination by the veterinarian support successfully the management of diabetes in your pet.
What to do?

- Use exclusively the blood glucose meter Wellion GLUCO CALEA calibrated for animals
- Test blood sugar twice a day before the meals
- Take notes of the blood glucose test results, amount of food, insulin doses and time of measurement in the Wellion diary
- Contact your veterinarian if the test result is outside of the range given by the veterinarian
- If blood sugar level is below 70 mg/dl (3.9 mmol/L) test again to recognize a hypoglycemia in time. Treat low blood sugar with Wellion Liquid Sugar GOLD.
- Feed only the amount of food agreed with your veterinarian before administering insulin to your pet
- Inform your veterinarian if the behaviour of your pet changes

What to avoid?

- Do not use a blood glucose meter calibrated to the blood of humans
- Do not increase or reduce the amount of food without consultation of your veterinarian
- Do not administer improper stored insulin
- Do not administer insulin when your pet refuses food or vomits and contact your veterinarian immediately
- Do not change the insulin dose without consulting with your veterinarian

WITH MAGNESIUM!

Art.No. WELL002
3 simple steps to get a result

1. Choose correct code chip
2. Insert test strip
3. Drop of blood is drawn into the strip
4. Only a few seconds for a safe and accurate blood glucose result

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Correct blood sampling at animals

Where to get a sample?

Ask your veterinarian for advice how to measure blood sugar levels at your pet. You will get information about the most appropriate sites for blood sampling.

You can take a blood sample from the following sites:

- Ear
- Paw
- Callus of the leg
- Inner and outer lip

Tips and tricks for blood sampling

Sometimes it takes longer to produce a blood drop of appropriate size.

Here some tips how to get the optimal blood drop:

- Warm the puncture site by means of a warm cloth prior to the blood sugar test
- Gently rub the puncture site

You can gently apply a thin film of vaseline before puncture to avoid smearing of the blood into the hair.

The following tips will help your pet to accept the blood sugar test more positively:

- Perform the blood sugar test under relaxed, quiet home-conditions
- The pet should get a treat as a reward after the testing
- Try to habituate your pet to the gentle click of the lancing device for blood sampling

GLUCO CALEA

2 μl  4 μl  8 μl

Size of blood sample required by other blood glucose meters

Only 0.5 μl
GLUCO CALEA
wellion® vet

With best regards