

OnTarget Blood Glucose Test Strip BA105P User Manual



Before You Begin

- Please read both this information and the OnTarget Blood Glucose Monitoring System User's Manual before using OnTarget test strips to perform blood glucose testing on your pet.
- Failure to follow instructions may cause incorrect test results.
- This device is for use under the direction of a veterinary professional.
- Home testing results are not a substitute for veterinary advice.
- The OnTarget Blood Glucose Monitoring System is designed to aid in the treatment of Pet Diabetes. Always consult with your pet's veterinarian prior to starting new treatments. PetTest makes no recommendations on treatment options and is solely a system for measuring blood glucose and β -Ketone levels in dogs and cats.

Intended Use

PetTest OnTarget Blood Glucose & β -Ketone Monitoring System is intended for use outside the body (in vitro diagnostic use) at home. It is used for quantitative measurement of glucose level of dogs and cats in fresh capillary and venous whole blood. It should not be used for the diagnosis of diabetes, for the testing of newborns, or for testing of arterial blood.

The PetTest OnTarget Blood Glucose & β -Ketone Monitoring System consists of the PetTest OnTarget Blood Glucose & β -Ketone Meter and the PetTest OnTarget Blood Glucose & β -Ketone Test Strips. The PetTest OnTarget Blood Glucose & β -Ketone Meter is used with PetTest OnTarget Blood Glucose & β -Ketone Test Strips to quantitatively measure glucose & β -Ketone in whole blood samples.

The PetTest OnTarget control solution is for use with the PetTest OnTarget Blood Glucose & β -Ketone Monitoring System as a quality control check to verify the accuracy of blood glucose test results.

Test Principle

The test is based on the quantitative measurement of glucose level in fresh capillary and venous whole blood. The blood sample is drawn into the tip of the test strip for testing. Glucose in the sample mixes with special chemicals on the test strip and a small electrical current is produced. The current is measured by the meter. The corresponding blood glucose level is displayed. The strength of the current produced by the reaction depends positively on the amount of glucose in the blood sample. See pages 14–23 in the OnTarget Meter User Manual.

Chemical Components

FAD glucose dehydrogenase.....	8%
Electron shuttle	72%
Non-reactive ingredients	20%

Warning and Precautions

- The PetTest OnTarget Blood Glucose & β -Ketone Monitoring System is intended for use on pets (dogs and cats). DO NOT use on humans!
- The test strips are for single use only. DO NOT reuse test strips.
- All parts of the kit are considered biohazardous and can potentially transmit infectious diseases, even after having performed cleaning and disinfection. Details of the cleaning and disinfecting procedure could be found in the section Cleaning and Disinfection in the owner's manual.
- Due to the risk of blood-borne pathogen transmission, you should wash your hands thoroughly with soap and water after handling the meter, lancing device, or test strips.
- For in vitro diagnostic use only.
- Excessive dehydration may cause low results. If you believe your pet is dehydrated, consult your veterinarian immediately.
- In situations of poor circulation, results from capillary sampling may not represent the true physiological state. Examples would include but not limited to: dehydration, low blood pressure or shock. Critically ill pets should not be tested with the blood glucose meter.
- Glucose levels below 65 mg/dL (3.6 mmol/L) or above 250 mg/dL (13.9 mmol/L) may indicate a potentially serious medical condition. If test result is below 65 mg/dL (3.6 mmol/L) or above 250 mg/dL (13.9 mmol/L), consult your pet's veterinarian immediately.
- As a quality control check to verify the accuracy of your blood glucose test results, use PetTest Control Solution as instructed on page 13-14 of the PetTest OnTarget Meter User Manual.

Storage and Handling

- Store the test strips at temperatures between 39.2°F and 89.6°F (4°C and 32°C). Do not freeze.
- **Any test strip removed from the foil wrap must be used immediately! Test strips removed from foil wrap cannot be stored for later use.**
- Do not use the test strips after the expiration date printed on each foil.
- Perform tests at temperature between 50°F and 104°F (10°C and 40°C) and between 15%-85% humidity.
- Keep the test strips away from direct sunlight. Do not store the test strips in areas of high humidity.

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- Only touch the test strips when your hands are dry. As a precaution, only touch the foil. Test strip must be used immediately after opening foil wrap
- Do not bend, cut or alter the test strips in any way.

Testing Procedure

1. Completely clean the testing site of your pet. If you use an alcohol swab, make sure that it is completely dry before lancing.
2. Insert a test strip into the meter. The meter will turn on automatically.
3. Press the Right Arrow button to select the appropriate test mode (dog/cat/control solution) as desired. (If not already pre-selected.)
4. Use a lancing device or safety lancet to obtain a blood sample. The minimum blood sample size is 0.5µL. When the flashing blood drop symbol appears on the display, apply blood to the tip of the test strip until blood has completely filled the confirmation window. **Hold the meter and test strip at a 45° angle to your pet to most effectively collect the blood.** Please note that if the confirmation window is not completely filled with blood, the test result may be inaccurate.
5. The meter starts counting down, and your test result is then displayed on screen. The result is automatically stored in the meter's memory.
6. Turn the meter off by removing the strip. Properly discard the used strip in a sharps container.

For detailed information on "Cleaning and Disinfection", please refer to the PetTest OnTarget Blood Glucose & β-Ketone Monitoring System Owner's Manual.

The used lancet and the used test strip may be potentially biohazardous. **Please discard all medical waste responsibly following your local or state medical waste regulations.**

How to Read Your Blood Glucose Test Result

- The test provides a quantitative measurement of glucose is from 20 mg/dL (1.1 mmol/L) to 650 mg/dL (36.1 mmol/L).
- If your test result is lower than 20 mg/dL (1.1 mmol/L), the "Lo" message will appear on the meter display. This indicates a low blood glucose level (severe hypoglycemia). Repeat the test with a new test strip; If the result is the same, contact your pet's veterinarian immediately.
- If your test result is greater than 650 mg/dL (36.1 mmol/L), the "HI" message will appear on the meter display. This indicates a very high blood glucose level (severe hyperglycemia). Repeat the test with a new test strip; If the result is the same, contact your pet's veterinarian immediately.

Expected Blood Glucose Values

The normal value for blood glucose in healthy dogs and cats is 75–120 mg/dL (4.2–6.7mmol/L).¹ Many factors will affect blood glucose level, such as food intake, medication dosages, health, stress, or exercise. The expected blood glucose level appropriate for your pet should be determined by your pet's veterinarian.

Questionable or Inconsistent Results

- Be sure the sample drop of blood completely fills the confirmation window of the test strip.
- Confirm that test strips are within the expiration date.
- Check meter and strip performance by using PetTest OnTarget control solution.

- High or low blood glucose may cause serious medical conditions. If you continue to get results that are unusually high or low, contact your pet's veterinarian immediately.

Quality Control Using Control Solution

PetTest Level 3 Control Solution is used to check that your meter and the test strips are working together as a system. It is very important that you do this simple check routinely to make sure you get correct results. Control range can vary for each foil wrapped box of test strips. Always refer to the control range printed on the foil of your current box.

When to check your system with control solution:

- Before using the meter for the first time.
- When you begin using a new box of test strips.
- Whenever you suspect that the meter or test strips are not working properly.
- After cleaning and disinfection of the meter.
- At least once a week.
- To check your technique.
- When blood glucose test results are not consistent with how your pet is acting, or if you think results are inaccurate.
- When your test strips are exposed to extreme environmental conditions (below 39°F (4°C), or above 104°F (40°C), or humidity levels below 15%, or above 85%).
- If you drop the meter.

If the control solution test result falls outside the specified range, repeat the test. Results falling outside the range may be caused by:

- Performing the test improperly.
- Not shaking the control solution vial well enough.
- Using expired or contaminated control solution and test strips.
- Control solution is stored outside of the specified temperature range, which is from 35°F to 86°F (2°C to 30°C).
- Using the first drop of control solution.
- Using a damaged meter.

If you continue to get control solution test results that fall outside the range, the test strip and the meter may be not working properly. DO NOT use the system to test the blood glucose of your pet. Contact Technical Support for help. Toll-free: 1-866-373-2824

Limitations

- **Blood Source:** Use only Capillary and Venous whole blood. Do not use serum or plasma.
- **Hematocrit Effect:** When hematocrit is between 15% and 65%, the glucose result is not affected. If you do not know the hematocrit level of your pet, contact your pet's veterinarian immediately.
- **Neonatal Use:** The test strips shall not be used for the testing of newborn animals.

Performance Characteristics

Accuracy: The performance of PetTest OnTarget test strips has been tested both in laboratory and clinical studies. The testing range of the PetTest OnTarget Blood Glucose & β-Ketone Monitoring System is from 20 mg/dL (1.1 mmol/L) to 650 mg/dL (36.1 mmol/L).

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Accuracy-Capillary Blood

Species	No. Samples Tested	Glucose Reference	Reference Range (mg/dL)	Average Bias to Reference (%)
Dog	50	IDEXX Catalyst One	69-530	-2.5%
Cat	50	IDEXX Catalyst One	65-447	-1.4%

Accuracy-Venous Blood

Species	No. Samples Tested	Glucose Reference	Reference Range (mg/dL)	Average Bias to Reference (%)
Dog	60	IDEXX Catalyst One	69-530	-1.8%
Cat	60	IDEXX Catalyst One	65-447	-0.4%

Cleaning and Disinfection

Handle the meter with care. Avoid getting dirt, dust, blood, control solution, or any type of liquid on any part of the meter or strips. Clean the outside of the meter using a damp cloth. You can use either of the following cleaning agents:

- Mild detergent and water, or
- 70% Isopropyl Alcohol, or
- Mixture of 1 part household bleach to 9 parts water

References

1. Merck Veterinary Manual: Diabetes Mellitus. Revision May 2013 by David Bruyette, DVM, DACVIM

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Symbol Information



In vitro diagnostic use



Do not reuse



Use by/Expiry date



Store at



See instruction for use



Caution, consult accompanying documents



Keep away from sunlight



Humidity



Biological risks



Lot number



Manufacture date



Serial number



CE marking



39.2°F



89.6°F



15%

85%

