g-pet Test Strip

For Testing Blood Glucose in Capillary Whole Blood

IMPORTANT: Please read this information and your g-pet users manual before using g-Pet Test Strips. Call Woodley Customer Services on +44 (0)1204 669033 immediately if these instructional materials or your meter results seem unclear.

- **Intended Use**

The g-Pet Glucose Test Strips are used with the g-Pet Blood Glucose Meter for quantitatively measuring glucose (sugar) in capillary whole blood. The g-Pet Test Strips are for testing outside the body (*in vito diagnostic use*). The g-Pet Blood Glucose Monitoring System is intended for monitoring blood sugar levels of dogs and cats by a veterinary professional.

- **Introduction**

The g-Pet Glucose Test Strip, used with the g-Pet Blood Glucose Meter, will accurately measure the animals blood sugar. When the edge of the g-Pet strip is touched to a drop of blood, the test strip draws the blood into the sample chamber and your glucose reading is displayed on the meter after an average of 10 seconds. The test measures glucose from 1.1mmol/l to 33.3mmol/l. The g-Pet Test Strip is calibrated to display the equivalent of plasma glucose values.

Please read your g-Pet blood Glucose Monitoring System User's Manual. If you have any questions about your g-Pet meter and Test Strips, call Woodley Equipment Co Ltd on +44(0)1204 669033 or email at sales@woodleyequipment.com

- **Warnings**

Keep the test strip away from children or animals. The cap is a choking hazard.

The cap or vial contains drying agents to protect the strips. Drying agents may be harmful if inhaled or swallowed and may cause skin or eye irritation.

If you get g-Pet Control Solution test results that fall outside the range printed on the test strip vial, repeat the test with a new strip vial, the g-Pet System may not be working properly. **DO NOT** use the system to test blood until you get a control solution test result within the range printed on the test strip vial label.

- **Precautions**

For *in vitro* diagnostic use (outside the body) only.

All devices contaminated with blood should be disposed of properly, Veterinarian professionals should follow their institution's infection control protocols.

Do not use test strips beyond the expiration date printed on the package since this may cause inaccurate results.

- **How to do the Test**

1.Set Up

Completely clean the bleeding site of the animal. Warm water helps to get the blood flowing. If you use an alcohol swab, make sure that it is completely dry before lancing.

Each batch of g-Pet test strip comes with two Glucode chips. Insert a **Glucode Chip** to the meter for a specific animal. The meter will turn on and display the code. **Make sure the code matches the code printed on the Test Strip vial**. If the code does not match, see your User's Manual for how to code the meter.

2.Do the test

Insert a Test Strip into the meter. The meter will turn on automatically.

Use the lancing device or insulin needle to obtain the right size blood drop.

Refer to your Lancing Device User's Instruction for how to use it.

When the blood symbol is blinking on the screen, lancs the animal to obtain a blood sample about the size of a pin head.

Gently touch the blood with the strip end, blood will fill automatically. When the strip is full, the meter will "beep" and the meter starts to count down.

Do not press the edge of the strip against the test site. Do not put the sample on top of the sample target area.

3.Read results

Read the test results in an average of 8 seconds.

The results will be stored in the meter memory.

Results are display as mmol/L (millimole per litre of blood).

Turn off the g-Pet meter by removing the test strip.

See your g-Pet Blood Glucose System User's Manual for a step-by-step guide on how to do the test.

- Use only the g-Pet Blood Glucose Meter with the g-Pet Test Strips.
- Be sure that the code on the meter display screen matches the specific animal (cat or dog) code on the test strip vial. If it does not match, see your User's Manual for how to code the meter.
- Fill the strip from the end side (target area) of the test strip for any one glucose test.
- Do not use test strips that are beyond their expiration date. Check the test strip vial for the dicard date.
- Avoid exposing test strips to extreme temperatures.

Check meter and test strip performance regularly using g-Pet Control Solution which are required but not supplied with Test Strips.

What Do Your Results Mean?

Blood glucose test results are shown on the meter as mmol/l.

- **Normal Glucose Values**

Normal blood glucose values range from about 4.4-6.6mmol/l. Diabetic animals can have blood glucose values that are moderately elevated.

- **Low Glucose Values**

The g-Pet meter displays results between 1.1 and 33.3 mmol/L . If your test result is lower than 1.1, "Low" (Lo) will appear on the meter display. This indicates severe low blood sugar.

- **High Glucose Values**

If your test result is above 33.3mmol/l, "High" (HI) will appear on the meter display screen. This indicates severe high blood sugar (hyperglycaemia).

- **Unexpected Results**

Low or high blood sugar readings can indicate a potentially serious medical condition. If the animal's blood sugar is unusually low or high, or if you do not feel the way the results indicate, repeat the test with a new test strip.

- **Limitations**

The g-Pet Blood Glucose Test Strips give accurate results when the following limitations are observed:

1. Use only the g-Pet Test Strip with the g-Pet Meter.
2. **Use only capillary whole blood. Do not use plasma or serum.**
3. **Do not use neonate samples.**
4. This system has been tested at altitudes below 7545 feet.
5. The test strips are for single use only. Do not reuse test strips.
6. Wash hands with warm soapy water and dry thoroughly before testing.
7. Expected values. Glucose levels below 3.3 mmol/l or above 13.3 mmol/l may indicate a potentially serious condition.

- **Additional Information for Healthcare Professionals:**

8. g-Pet Test Strip does not interfere with the haematocrit at a normal range (35-55%) of blood glucose.
9. g-Pet Test Strips are not validated for and should not be used for testing neonatal blood specimens.
10. Acetaminophen, uric acid, ascorbic acid (vitamin C), and other reducing substances when occurring in normal blood or normal theraputic concentrations do not significantly affect test results. However, abnormally high concentrations in blood may cause inaccurately high results.
11. Lipemic samples; Cholesterol up to 13mmol/l or triglycerides up to 22mmol/l do not significantly affect test results. However, glucose values in specimens beyond these levels, should be interpreted with caution.
12. Blood samples that contain a high concentration of dissolved oxygen may lower the test result.
13. Antiglycolysis and anticoagulants in blood samples may affect the test results.

- **Quality Control: Materials Required But Not Supplied**

The control solutions are used to check the performance of the g-Pet meter, Test Strips, and your testing technique. The system is performing correctly if the control solution test results falls within the specific control solution range listed on your g-Pet Test Strip vial.

A control solution test should be performed:

- when you first get your meter, before doing a blood test,
- when you begin using a new vial of test strips,
- when you suspect that the meter or test strips are not working properly,
- when blood glucose test results are not consistent with the animals symptoms or you think the resutlst are not accurate.

When a control solution test is done, you should get results within the expected range printed on the test stri[p vial. If control solution test results fall outside this range, repeat the test. Results that fall outside the range may be caused by:

- error in performing the test,
- expired or contaminated control solution,
- improper coding of the meter,
- test strip deterioration or meter malfunction.

When g-Pet Control Solutions are required but not supplied with Test Strips for checking the system. There are three g-Pet Control Solutions at different desired range of aqueous glucose (Low, Normal of High). For more information about the g-Pet Control Solution, please read your Control Solution package insert. Two sets of control solution should be used, a high level and a low level control solution of your choice.

- **Performance Characteristics**

The performance of the g-Pet system was tested bt comparing blood glucose results obtained by study subjects with those obtained using a YSI 2300 Stat Plus glucose analyser. The results below were obtained from sujects with Type 1 or 2 diabetes. The regression statistics are derived from a plot of the g-Pet capillary data versus YSI capillary data. The glucose range of the sample was 3.3-24.75mmol/l.

- **Precision**

Within-run precision of g-Pet test strips was measured with venous blood samples in the laboratory. The pooled precision data for fifty test strip lots (n=50) is shown in the tables below:

Average Glucose Concentration (mmol/l)	2.65	4.42	6.98	11.55	19.14
SD (mmol/l)	0.14	0.18	0.20	0.26	0.30
CV (%)	5.6	4.2	3.0	2.3	2.6

- **Within-Run Precision**
- **Chemical Composition**

Glucose oxidase	1.4% w/w
Potassium ferricyanide	2.6% w/w
Non-reactive ingredients	96% w/w

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When you call Customer Service, please have your g-Pet Meter, g-Pet Test Strip and all other system supplies available. This will allow us to answer any of your questions with speed and efficiency.