

Instructions for aPTT/PT Citrated Whole Blood Test Kit

Information



Xi'an Biolab Biotechnology Co., Ltd.
Room 301, Floor 3, Curvature Engine Photon Manufacturing Park Zone
1, No. 3000, Biyuan 2nd Road, High-tech Zone, Xi'an City,
Shaanxi Province, P.R. China



Zoetis UK Limited
1st Floor, Birchwood Building, Springfield Drive, Leatherhead, Surrey,
KT22 7LP
United Kingdom

For product support, please contact your local **Zoetis Customer Service Team**.

Edition: 1.0

Production date: On the product label

Read the instructions before use.

Store the instructions properly for future reference.



Zoetis Belgium S.A.
Rue Laid Burnlat 1
1348 Luvain-La-Neuve
Belgium

Product Name

aPTT/PT Citrated Whole Blood Test Kit

Product Code

GX-ICR-003

Target Species

Canine and Feline

Kit components

Item	Quantity
Cartridge	1 pcs \times 10
Product Instructions	1 pcs \times 1
Citrated Tube	1 tube \times 12
200 μ L Pipette Tip	1 tip \times 12

Intended Use

For the determination of aPTT/PT in feline or canine citrated whole blood, to assess blood clotting function.

Test Principle

The cartridge must be used in combination with the InCoag Automated Coagulation Analyzer by GlinX. The instrument employs a mechanical coagulation method for blood sample testing. The blood is transported through micro-channels to the reaction zone, where it moves back and forth under the pump's drive. The reaction zone is pre-coated with coagulation reagents. During the reciprocating movement, the reagents dissolve and activate the relevant coagulation factors in the blood. As clot formation occurs, the blood transitions from a flowing state to a non-flowing colloidal state. The built-in sensors in the instrument sensitively detect these changes in the blood's state and convert the time of occurrence into indicators for the corresponding test items.

Reagent Composition

aPTT: buffer, activator, stabilizer, phospholipid, NaCl, CaCl₂ and ProClin™300

PT: buffer, tissue factor, stabilizer, phospholipid, NaCl, CaCl₂ and ProClin™300

Storage

The unopened cartridge should be stored at 10°C to 30°C.

If refrigerated, allow the sealed pouch to equilibrate to room temperature for 10 minutes before opening it for testing.

Applicable Instruments

InCoag Automated Coagulation Analyzer by GlinX

Sample Preparation

For animal citrated whole blood only

Sample Preparation

1. Citrated blood is stable for 1 hour at room temperature and up to 4 hours at 2–8°C. If refrigerated, allow the blood to equilibrate to room temperature for 10 minutes before use.
2. Unscrew the cap of the anticoagulant tube. If the tube has been stored at 2–8°C, let it equilibrate to room temperature for 10 minutes before use.
3. A syringe is recommended for blood collection. Follow the hospital's blood collection procedure to collect a minimum of 300 μ L of fresh venous whole blood.
4. Transfer the blood into the anticoagulant tube, ensuring the amount reaches the marked line on the tube.
5. Tighten the cap and gently invert the tube 10 times to ensure thorough mixing of the anticoagulant and blood.

Precautions

- Calm the animal to reduce excitement, as this can accelerate blood circulation and enhance coagulation activity.
- Ensure that the disinfectant alcohol has fully evaporated.
- Use a syringe that has an appropriate gauge needle to avoid mechanical hemolysis while obtaining the sample.
- The added sample volume should reach the marked graduation line.
- Never add more blood to a test cartridge once the test has begun.

Test Procedure

1. **Turn on** the device and tap the **Test** button.
2. Take the test cartridge out of the foil bag. Confirm the foil bag has no air leakage or damage, the sample types are consistent with the test, and the QR code has no obvious defects. If the test cartridge is taken out of the cold storage, it should be brought to room temperature for 10 minutes before use.
3. **Insert the cartridge:** remove the cartridge from the foil pouch and insert it horizontally into the slot with the QR code facing up. Insert the cartridge before the sample. The analyzer will beep when the cartridge is inserted.
4. **Enter the sample information.** Sample ID and Species are required. Other fields are optional. Tap **Next**.

5. **Heat the cartridge.** It takes between 10 seconds and 1 minute for the analyzer to automatically heat the cartridge.
6. **Add Sample.** After heating, transfer 100 µL of sample into the sample well of the cartridge. After adding the sample, click the button to **start** the test.
7. **Run the test.** The analyzer will complete the test within 6 minutes.
8. The InCoag Automated Coagulation Analyzer performs real-time testing. Once the system detects the coagulation endpoint, it will automatically switch to the test result display screen.
9. **View results** and dispose of testing materials, following local regulations.

Reference Intervals

The reference intervals were obtained by testing 100 healthy animals.

Species \ Test	aPTT	PT
Canine	21.0-59.0s	15.0-34.0s
Feline	21.0-59.0s	15.0-34.0s

Limitations

- This test is only for citrated whole blood.
- Hematocrit (HCT) levels between 15% and 70% do not affect the results.
- The test should be performed within a temperature range of 10°C to 35°C and a humidity range of 10% to 90%.
- When the test results fall below the lower limit of the detectable system range, they will be displayed as "<". When the results exceed the upper limit of the detectable system range, they will be displayed as ">". The system ranges are as follows: aPTT: 7-120 s, PT: 7-90 s.
- A sample volume of 100–120 µL is required. If the volume is outside this range, the analyzer will display an error message.











Warnings

- The product is for veterinary use only.
- The product is for professional use only.
- Do not move the analyzer during testing.
- The cartridges are disposable; do not reuse.
- Use the product before the expiration date.
- Check the foil pouch; if it is damaged, do not use.
- Follow local regulations for medical waste disposal when handling blood samples.

References

1. Stokol, T. (2005) Disorders of haemostasis. In: BSAVA Manual of Canine and Feline Clinical Pathology (ed. by E. Villiers & L. Blackwood), pp. 83-98. BSAVA, Gloucester.
2. Clotting and Coagulation Disorders in Cats, World Small Animal Veterinary Association World Congress Proceedings, 2006, Séverine Tasker, Department of Clinical Veterinary Science, University of Bristol, Langford, Bristol, UK.

Symbol Descriptions

Symbol	Meaning	Symbol	Meaning
	Operator's manual		Use by date
	Temperature limit		Manufacturer
	Batch code		Date of manufacture at country of manufacturing China
	Importer		Distributor
	Catalogue number		Electronic instructions for use