Florfenicol (FF) Rapid Test Kit

Catalog No.: abx092113

Size: 20 / 50 / 80 tests

Storage: Store all reagents at 2°C – 30°C. Keep dry.

Application: For qualitative detection of Florfenicol in egg and muscle samples.

Detection Limit: 0.2 ng/ml

Introduction and Assay Principle

Abbexa's Florfenicol Rapid Test Kit is based on the competitive gold immuno-chromatography assay (GICA) principle. Any Florfenicol present in the samples competes with the colloidal gold particle-labelled Florfenicol-antibody conjugate. When the concentration of Florfenicol in the sample is less than the detection limit, there is a color change in the detection line and the result is negative. When the concentration of Florfenicol in the sample solution is more than the detection limit, there is no color change in the detection line and the result is positive.

Kit Components

- Test cassettes
- Reconstitution Buffer

Material Required But Not Provided

- High-precision pipette and sterile pipette tips
- Manual homogenizer
- Nitrogen evaporator
- Water bath
- Centrifuge and centrifuge tubes
- Ethyl acetate
- Deionized water
- Timer

A. Sample preparation

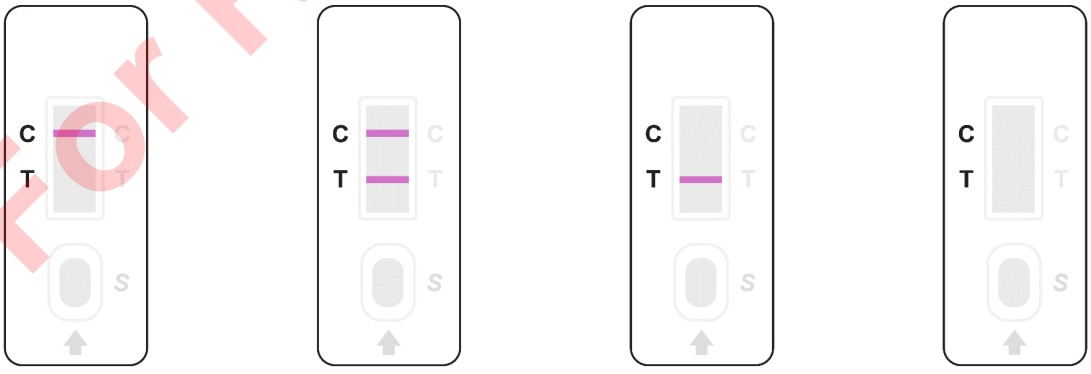
- **Egg:** Weigh 2 ± 0.1 g of egg white and add 2 ml of ethyl acetate and gently mix. Allow sample to sperate and carefully collect 1 ml of the supernatant. Invert tube to mix and dry using a nitrogen evaporator or a water bath at 65°C. Dissolve the residue in 0.3 ml of Reconstitution Buffer and invert tube repeatedly to mix. Test the sample within 30 minutes of preparation.
- **Tissue Homogenates (fish, shrimp, livestock):** Remove skin and fat from the sample and homogenize. Weigh 2 ± 0.1 g of homogenate and add to 2 ml of ethyl acetate and 2 ml of deionized water. Invert tube for 3 minutes. Centrifuge at 4000 rpm for 3 minutes. Carefully collect 1 ml of supernatant, mix thoroughly, and dry using a nitrogen evaporator or a water bath at 65°C. Dissolve the residue in 0.3 ml of Reconstitution Buffer and invert tube to mix. Test sample within 30 minutes or preparation.

B. Assay procedure

1. Lay the test cassette on a flat surface. Using a pipette, slowly and vertically add 120 µl of sample to the sample well and wait for 2 minutes.
2. Leave at room temperature for 2 minutes, then mix the purple residue by aspirating and dispensing until dissolved.
3. Leave for a further 2 minutes, then remove all liquid from the well.
4. Leave for 5 – 8 minutes then analyze the result.

C. Results analysis

- **Negative result:** A colored line is observed in both the control (C) section and the test (T) section.
- **Positive result**: A colored line is observed in the control (C) section but not the test (T) section.
- **Invalid result**: No colored line is observed in the control (C) section.



Positive **Negative** **Invalid** **Invalid**

Notes

1. The test cassettes should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible.
3. Samples should be clear with no visible particles, turbidity, or bacterial pollution.
4. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
5. Do not use water, PBS, or similar solutions as the negative control.
6. Avoid touching the cassette membrane through the sample well or test result window.
7. This kit is for qualitative detection of Florfenicol in egg and muscle samples. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples can be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
8. This kit is for research use only and the results are for reference only.
9. All waste should be disposed appropriately. Please note that you may need to follow special waste disposal procedures for infectious samples. Please check local disposal regulations.

Technical Support

For troubleshooting and technical assistance, please contact us at support@abbexa.com.