

**«LTFLOW ASF»  
lateral flow test for detection antibodies to African swine fever virus**

**INTENDED USE**

«LTFLOW ASF» is a one-step qualitative immunochromatographic assay for antibodies detection against African Swine Fever (ASF) Virus in the swine and wild boar samples of whole blood, serum or plasma.

Assay time: 10-15 min

Sample: whole blood, serum or plasma

**PRINCIPLE OF THE ASSAY**

«LTFLOW ASF» is a lateral flow immunochromatographic assay for the detection of antibodies to ASF Virus in swine serum (whole blood, plasma). The test device composed of a pad containing protein G-colored particles. A second area of the test device has a membrane that is coated with ASF Virus recombinant proteins. During the test, antibodies in the sample bind to the protein G-colored particles. If ASF specific antibodies are present in the sample, the complex of antibody-protein G-colored particles then migrates through the membrane and is captured by the antigens immobilized in the test region. This captured complex shows up as a purple line.

Absence of line in the test region (T) suggests a negative result. The test contains an internal control in the control region (C) that should always show up as a purple line regardless of the test line result.

**KIT COMPONENTS**

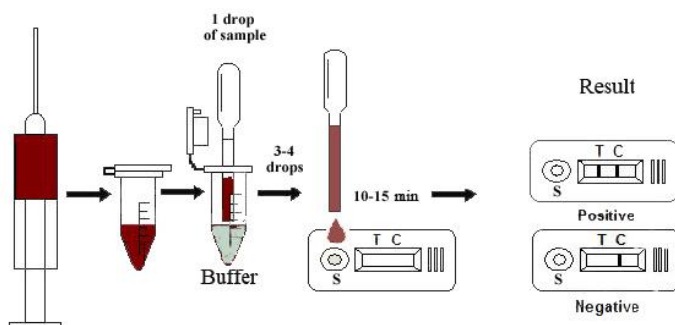
1. Test device
2. Assay buffer tubes
3. Pipette
4. Desiccant
5. Product Manual

**SAMPLE PREPARATION**

Collect animal whole blood, serum or plasma for assay according to standard procedure. Do not use sample showing hemolysis or being contaminated with microbes.

**TEST PROCEDURE**

1. When sample and test kits are stored at cold circumstances, put them at room temperature for 15-30 minutes before use.
2. Take out a device from a pouch and place it on a horizontal surface.
3. Using a pipette, obtain the sample and dispense 1 drop of serum (whole blood or plasma) into a buffer tube, mix.
4. Dispense 3-4 drops of the fluid into the sample well (S) of device.
5. Read the test results between 10-15 minutes. Don't read results after 15 minutes.

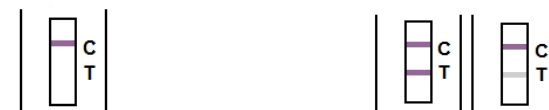

**INTERPRITATION OF RESULTS**

A purple band should appear on the control line regardless of the test result. The presence of another band on the test line determines the result.

**Control Line (C):** The line should always appear regardless of the presence of the antibodies of ASF Virus. If this line does not appear, the test should be considered invalid. This might be because of impure or the lack of sample. It should be tested again with another kit.

**Test Line (T):** The presence of antibodies of ASF Virus the test line

- 1. Negative:** Control line only appear.
- 2. Positive:** Both Test and Control lines appear


**3. Retesting:**

- a) Both Test and Control lines do not appear.
- b) Test line only appear


**PRECAUTIONS**

1. For the best results please strictly adhere to this instruction.
2. Use for in-vitro diagnostic purposes only.
3. Use within 10 minutes after opening the pouch because the test kit is very sensitive to moisture and its effect may diminish.
4. Do not use the kit when its pouch is torn, sealing is not good in shape or expiration date is passed.
5. Be careful of not touching the result window.
6. Every sample should be used with different droppers.
7. Do not use sample showing hemolysis or being contaminated with microbes, which may cause false positive or false negative result.
8. Use disposable gloves when you suspect the infection caused by sample. And wash your hands later.
9. Dispose solid wastes after sterilizing them at 121 °C for over 1 hour.

**STORAGE**

The kit should be stored at temperature (8-25 °C). The test kit is stable during the expiration date (12 months) marked on the foil paunch. Do not freeze. Do not store the kit in direct sunlight.