

## ALV P27 Ag Rapid Test Kit

Product #: T21161

### 1. Before Test

- Check the validation and expiry information of the kit; make sure the kits are valid and stored properly before use.
- If the package is broken or damaged before use, please do not use. Contact your supplier and see if it is usable.
- The sample and sample tube shall be handled properly. All used strips shall be collected according to local regulations.
- Take the strip out from the package according to your requirement and use for test immediately.
- Do not open the plastic container before use.
- This test strip is used for only once, do not use repeatedly.

### 2. Introduction

Avian sarcoma leukosis virus (ASLV) is an endogenous retrovirus that infects and can lead to cancer in chickens; experimentally it can infect other species of birds and mammals. ASLV replicates in chicken embryo fibroblasts, the cells that contribute to the formation of connective tissues. Lymphoid leukosis is the most common form of this disease and with typical presentation of gradual onset, persistent low mortality, and neoplasia of the bursa. Subgroups A, B, E and J are the major subgroups of avian leukosis virus (ALV) infecting chickens. ALV infection has become endemic in many countries and has a significant negative effect on the poultry industry.

As the capsid protein, P27 is the group-specific antigen of ALV and has many viral antigen sites, which enable the easy detection of the virus itself, and based on which ELISA or lateral flow immunoassay were further developed for laboratory testing purpose.

### 3. Principle

This current test is based on immunochromatographic assay, in which double antibody sandwich immunoassay is employed. There are two Lines (Line C and Line T) on the test strip. Line C is coated with secondary antibody, which will recognize p27 specific antibody and always appear. Colloid gold conjugated antibody A (coated on a membrane) will recognize the p27 antigen in sample and then the other antibody B will capture the antibody A-antigen complex on Line T, then a positive result is out with 2 lines on the strip. If Line T is invisible, the result will be negative. If Line T is weaker than Line C, a weak positive result will be obtained.

### 4. Application

This kit is used to detect P27 antigen in cloacal swabs, egg white and meconium of poultry.

### 5. Kit Components

- Test Strip, 48 pcs in 6 plastic bottles, 8 pcs / bottle.
- Sample Buffer, 1 bottle
- Plastic Pipettes, 50pcs
- Kit insert

### 6. Sample preparation

#### 6.1 Egg white

Collect egg white sample from broken eggs, do not take yolk.

Then dilute the egg white with sample buffer in a rate of 1:3. i.e., 3 drops of egg white, 9 drops of buffer. Mix thoroughly.

## 6.2 Meconium / Cloacal swabs:

Collect meconium or cloacal swabs with sterilized swabs: dissolve sample with sample buffer and mix thoroughly for assay, i.e., one swab + 0.5ml sample buffer.

## 7. Assay Steps

- Add approx. 100µl sample (4 drops by plastic pipette) into the microwell containing pink reagent.
- Then pipet up and down to mix the sample and the reagent.
- Insert the test strip into the sample well.
- Wait for 5min to observe the result. Result over 15min is not valid.

### Note:

Strong positive sample will appear 2 lines on the test strip in 5min.

Weak positive sample may appears after 5min, for example, in 10min, etc.

## 8. Result Determination

There are two lines on the strip, Line C for Control Line, Line T for Test Line.

**NEGATIVE (-):** Line C is visible, and Line T is not visible.

**POSITIVE (+):** Line C is visible and Line T is visible.

A strong color of Line T indicates strong positive, and weak Line T means weak positive.

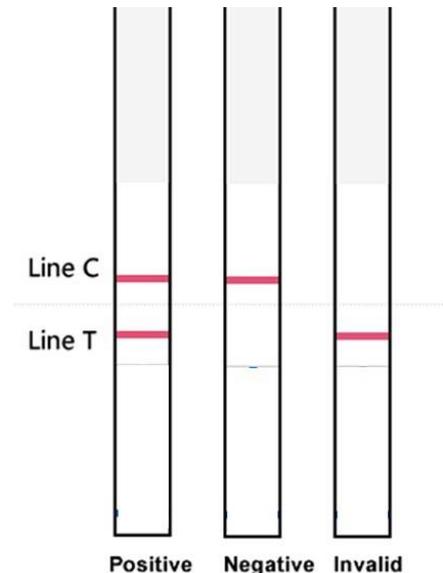
## 9. Special notice

8.1 Read the kit instruction carefully before use.

8.2 Use the strip within 10min after taking out from the plastic package.

8.3 The test strip can be used for only once, do not use repeatedly.

8.4 The test result is for reference, suspicious result may need further confirmation with ELISA.



## Manufacturer Information

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