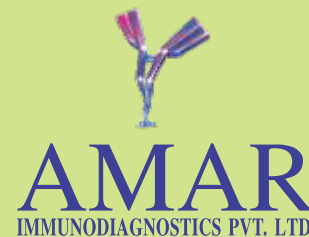


# Rapid lateral flow strip (LFS) for detection of Vip3 in Cotton/Corn leaf or seed

Cat No. AID 031



## Intended use

Vip3A lateral flow strips (LFS) test kit is intended to be used for the qualitative detection of Vip3A protein in individual Cotton/Corn leaf or seed samples.

The total incubation time of the assay is 5 minutes.



Punching a Corn leaf in a microfuge vial

## Principle of the test:

An antibody specific to the Vip3A protein molecule is immobilized on the test line area of nitrocellulose membrane. Second antibody specific for Vip3A molecule is conjugated with colloidal gold and incorporated in the sample area of lateral flow strip. Anti mouse IgG is immobilized on the control line area of the LFS.

When the LFS is placed in the sample extract, the Vip3A protein present in the sample extracts binds to the antibody labelled with gold and the complex moves upward by capillary action. The complex then binds to the antibody coated on the test line resulting in pink/purple color test line. As the complex moves further up, it binds to the control line resulting in pink/purple color control line. In absence of Vip3A, the test line does not appear as no complex binds to the test line while control line turns pink/purple color indicating validity of test protocol.

## Contents of the kit: Kit is sufficient for 100 tests.

Vip3ALFS strips	50 strips per canister. Two canisters per kit
Extraction buffer	Two vials of 50 ml each. Ready to use
Dropper	One
Pack insert	One

## Material and equipment required but not provided

- \* Pipette with disposable plastic tips
- \* 1.5 ml Microfuge tube with cap
- \* Pestles
- \* Timer
- \* Marking pen and Paper towels.

## Precautions

The Vip3A LFS kit is intended for in vitro use only. The reagents contain thimerosal as preservative. Prevent direct skin and eye contact with kit components. Seek medical attention in case of accidental ingestion of kit components.

## Storage of the kit

The kit should be stored at 2 - 8° C. The unopened kit is stable till the expiry date printed on the kit label. The cap of the canister should be closed firmly after removing the required strips. Exposure to moisture is likely to affect the performance of the test strips.

## Sample preparation:

**Extraction of seed tissue:** Crush single seed and transfer it to 5 ml plastic tube. Add 1.0 ml of extraction buffer. Mix well and wait for five minutes.

Or

Use 48 well seed crushing plate, seed crusher and hammer to crush 48 seeds at a time. Add 1.0ml of extraction buffer using calibrated dropper. Mix well and wait for 10 minutes.

### **Extraction of leaf tissue:**

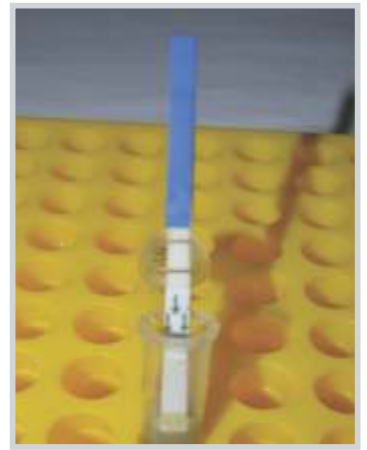
Take two leaf punch (approximate weight 20 mg) and transfer it to 1.5 ml microfuge tube. Grind the leaf tissue with pestle until the leaf tissue is well ground. Add 0.5 ml extraction buffer. Mix well and wait for 5 minutes. Use new pestle for each leaf sample to avoid cross contamination.



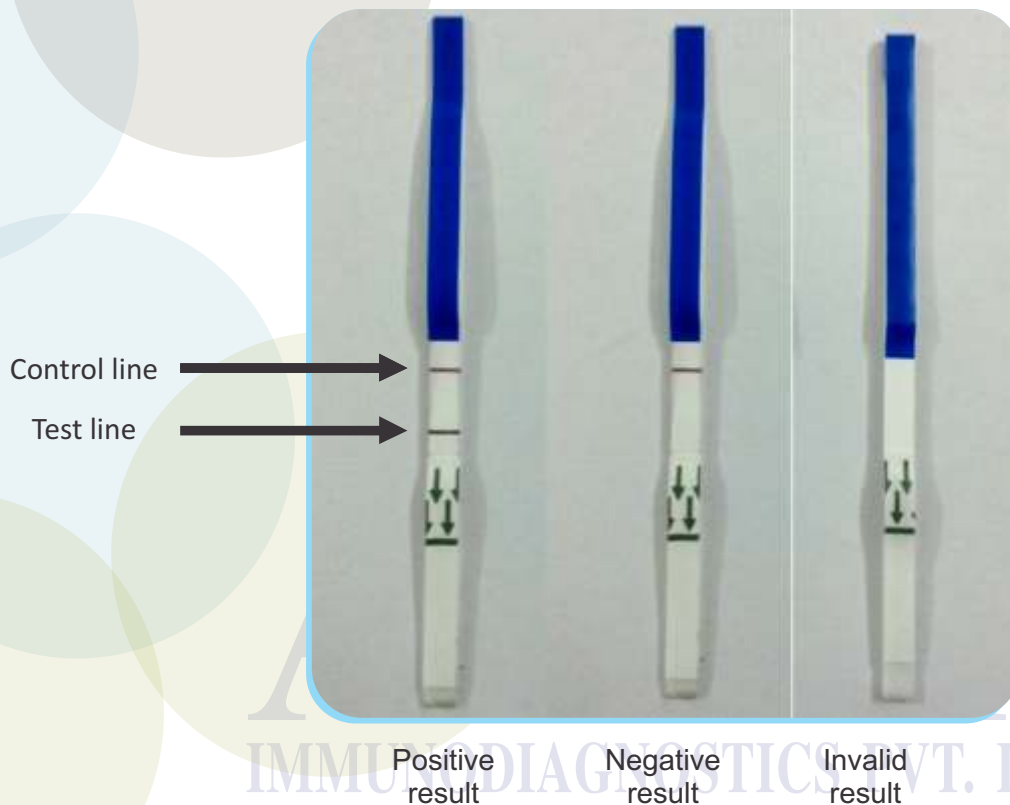
Extracting protein by crushing with pestle

## Assay Procedure:

1. Allow canister to come to room temperature before opening it to remove the desired number of strips.
2. Insert one strip in each sample. Part of the strip showing arrow should be dipped in sample extract. Allow the test strip to remain in the microfuge tube in vertical position for 5 minutes.
3. Remove the strip and observe the result. Positive sample result may appear much earlier than 5 minutes.
4. For permanent storage of strips, cut off the bottom section of the strip covered with arrow using pair of scissors.



Strip in leaf extract with positive result



Cutting of strip for permanent record and storage

## Interpretation of LFS results:

Read the strip in 5 minutes.

Two line indicates positive test result while single line indicates negative results.

Absence of control line in 5 minutes indicates invalid test.

The appearance of faint test line after 5 minutes should not be necessarily interpreted as positive test.

## Notes:

- ❖ The procedure instructions should be strictly followed to get correct results. Change in procedure may lead to wrong results.
- ❖ This kit has been optimized for individual Cotton/Corn seed and leaf.
- ❖ Cross contamination between different wells/microfuge tubes will lead to wrong results
- ❖ This kit is meant for screening for presence or absence of Vip3 in individual Cotton/Corn seed and leaf.
- ❖ When in doubt, please confirm results with an alternate method.

## WARRANTY

Amar Immunodiagnostics Pvt Ltd warrants that the products sold hereunder (“the Products”) are defect-free in material and workmanship, provided they are used in accordance with the prescribed instructions before the expiry of the products as printed on the product label.

The customer should notify Amar Immunodiagnostics in writing of warranty defects during the warranty period, including an offer by the customer to return the products to Amar Immunodiagnostics for evaluation. Amar Immunodiagnostics will repair or replace, at its own option, any product or part thereof that proves defective in material or workmanship within the warranty period.

This warranty also does not apply to products to which changes or modifications have been made or attempted by persons other than pursuant to written authorization by Amar Immunodiagnostics

## THIS WARRANTY IS EXCLUSIVE

The sole and exclusive obligation of Amar Immunodiagnostics shall be to repair or replace the defective products in the manner and for the period provided above.

Amar Immunodiagnostics shall not have any other obligation or liability, whatsoever it may be, with respect to the products or any part thereof. Under no circumstances, whatsoever the circumstances may be, shall Amar Immunodiagnostics be liable for accidental, special or consequential damages. If any part of this warranty is determined to be void or illegal, the remainder shall remain in full force and effect.

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IMMUNODIAGNOSTICS PVT. LTD.

**For any further information, please contact:**

**AMAR IMMUNODIAGNOSTICS PVT. LTD.**

242/1, Road No. 18, Jubilee Hills, Hyderabad - 500033, India.

**Tel :** +91 40 2355 2953, 2354 7202 **Fax :** +91 40 2355 2954

**E-mail :** amar.immunodiagnostics@gmail.com; info@amarimmunodiagnostics.com

**Website :** www.amarimmunodiagnostics.com