

Intended use

PAT/pat (Liberty link) lateral flow strips (LFS) test kit is intended to be used for the qualitative detection of Pat/pat protein in individual cotton, soybean and corn leaf or seed samples.

The total incubation time of the assay is 5 minutes.

Principle of the test

An antibody specific to the PAT protein molecule is immobilized on the test line area of nitrocellulose membrane. Second antibody specific for PAT 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 PAT 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 purple to red color test line. As the complex moves further up, it binds to the control line resulting in purple to red color control line. In absence of PAT, the test line does not appear as no complex binds to the test line while control line turns red to purple color indicating validity of test protocol.

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

Pat/pat LFS strips	50 strips per canister. Two canisters per kit
Extraction buffer	One vial of 10 ml (10X concentrate)
Pack insert	One

Working extraction buffer: To 90 ml of reagent quality water, add 10 ml of extraction buffer concentrate. The solution is now ready to use. Store unused solution at 2-8 C

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 PAT 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 1.5 ml microfuge tube. Add 1.0 ml of extraction buffer. Mix well and wait for one minute. Transfer 0.5 ml of supernatant to a new microfuge tube.

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 1.0 ml extraction buffer. Mix well and wait for a minute. Transfer 0.5 ml of supernatant to a new microfuge tube.

Use new pestle for each leaf sample to avoid cross contamination.

Assay Procedure

Allow reagents to come to room temperature before starting the test.

Remove the required number of strips from the canister and close the cap tightly.

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. Remove the strips and observe the results.

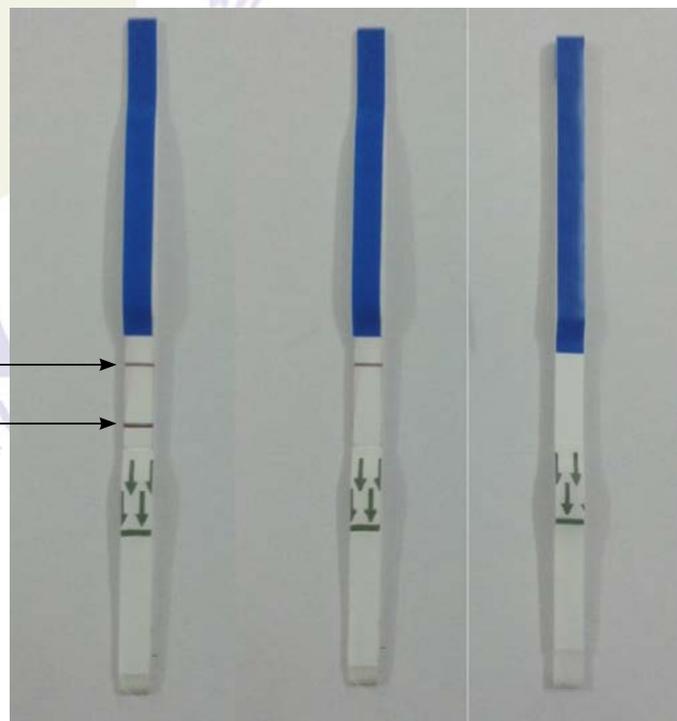
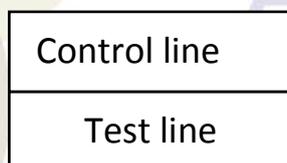
Interpretation of LFS results

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.



Positive
result

Negative
result

Invalid
result

WARRANTY

Amar Immunodiagnostics Pvt. Ltd. warrants that the products sold hereunder (“the Product”) 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 sole option, any product or part thereof that proves defective in materials 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, Amar Immunodiagnostics shall be liable for incidental, 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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