Allergen LFD Kit Instructions For Use

This kit includes:

- 25 x Allergen-Specific Lateral Flow Device Tests
- 55ml Extraction/Running Buffer
- 25 x 2ml Dilution Tubes

Materials available on request:

- Nylon Swabs
- Plastic Transfer Pipettes

Materials Recommended but not required:

- Vortexer mixer
- Timer
- Balance
- Centrifuge
- Laboratory Pipettes (capable of pipetting 100ul-1000ul)

Storage Instructions:

- Store buffer refrigerated (4-8C)
- The rest of the kit components may be stored refrigerated or at room temperature (20-25C)
- Bring all components to room temperature before use

Individual lots of extraction/running buffer are specific to the lot of kits they were received with and should not be interchanged with other lots.

Avow Diagnostics Allergen Lateral Flow Device kits are intended for the purpose of detecting allergenic proteins in raw ingredient, finished product, and environmental samples, and have not been assessed in other industries besides food and beverage. While they have been validated on a wide range of matrixes, they should always be shown to be fit-for-purpose for your specific application. Contact support@avowd.com to confirm if your matrix has been validated, or for help validating a specific matrix.

For Analyzing Liquid Samples:

1. Pipette 900ul of extraction/running buffer into a labeled microcentrifuge tube.
2. Add 100ul of liquid sample being analyzed to the tube. Vortex or shake for 5-10 seconds.
3. Remove one Avow Almond LFD cassette from pouch and place on a clean flat surface.
4. Pipette 100ul of extracted sample onto the sample application area of LFD.
5. Set timer for 10 minutes. Go to Interpretation of Results (page 3).

For Analyzing Solid Samples:

1. Weigh out 0.2g of sample being analyzed and add to the tube.
2. Pipette 1800ul of extraction/running buffer into a labeled microcentrifuge tube.
3. Vortex or shake for 15-30 seconds. Let sit for 1 minute or centrifuge for 20 seconds.
4. Remove on Avow Almond LFD strip from pouch and place on a clean flat surface.
5. Pipette 100ul from the middle (aqueous) layer of extracted sample onto the sample application area of LFD.
6. Set a timer for 10 minutes. Go to Interpretation of Results (page 3).

For Analyzing Environmental Swab Samples:

1. Pipette 500ul of extraction/running buffer into a labeled microcentrifuge tube.
2. Remove a clean swab from its packaging and dip the swab end into the tube containing extraction/running buffer.
3. Use wetted swab to take environmental sample, by rubbing thoroughly over the surface being analyzed. Using same swab, perform swabbing in three directions, over a surface not more than 10cmx10cm.
4. Break the tip of the swab off in the labelled tube containing extraction/running buffer. Vortex or shake 5-10 seconds.
5. Pipette 100ul of extracted swab sample onto the sample application area of LFD.
6. Set timer for 10 minutes. Go to Interpretation of Results (page 3).

Interpretation of Results:

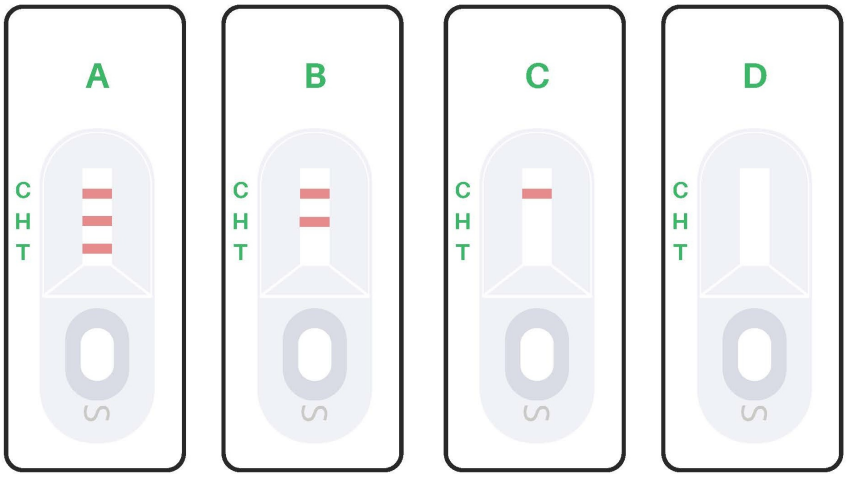
For a valid result, the Control and Hook (C and H) lines must both be showing.

A test with no Control line indicates the sample did not flow properly and the test should be re-run.

A test with no Hook line indicates the sample is extremely high in the target allergen.

A test with visible Control and Hook lines but no Test (T) line indicates a negative result.

A test with visible Control, Hook, and Test lines indicates a positive result.



A) Valid result- positive B) Valid result- negative C) Valid result- high positive D) Invalid result

Troubleshooting:

If the sample does not flow to the end of the test strip, dilute an extra 1:1 in extraction/running buffer and re-run on a new test strip. This will reduce the sensitivity of the test proportionately (the LOD will now be twice as high). To avoid reducing the sensitivity, centrifuge the sample at 3000 x g for 20-30 seconds if this has not already been done.

If the sample migrates to the end of the test strip but there is no Control line, check the pH of the extracted sample; the pH should be between 5.0 – 9.0, if it is outside this range dilute 1:1 in buffer and check pH again, repeating until it falls within range.

For any other questions/issues contact support@avowd.com