

# Materials For In-Vitro Diagnostics



# Flow-Through Assay

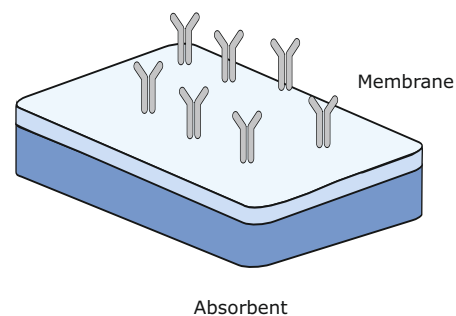
In a flow-through immunoassay, the sample flows vertically on a membrane surface and wicks through the membrane surface into an absorbent pad below.

Flow-through immunoassays are widely used in many regions across the world.

The wide range of Axiflow membranes and absorbents provides you the flexibility to optimize your flow-through assay.

## Key components of the Flow-Through assay are:

1. Nitrocellulose Membrane
2. Absorbent Pad



## Product Detail

### Basic Information

|          |   |
|----------|---|
| Membrane | Nitrocellulose<br>Highly sensitive small-pore membranes with large surface area and high protein-binding capacity |
|----------|---|

|           |  |
|-----------|--|
| Absorbent | 100% cellulose based absorbent sheet with fast wick and high liquid absorption |
|-----------|--|

|                   |   |
|-------------------|---|
| Visual Appearance | White, smooth film on a thick absorbent |
|-------------------|---|

|             |                                       |
|-------------|---------------------------------------|
| Wettability | Surfactant are added for fast wetting |
|-------------|---------------------------------------|

## Membrane

Axiflow Flow-Through Membrane is an unsupported, paper-backed membrane constructed of 100% nitrocellulose. The nitrocellulose membrane is casted on a thick cellulose absorbent and the two are encapsulated together. The membrane is extensively used for vertical-flow assays and eliminates the problems caused by capillary rise.

The small pore size and membrane purity of the flow-through membrane enables high protein-binding capacity and greater sensitivity of the assays.

## Absorbent

The absorbent used for flow-through assays require high water absorption and fast wicking of as material flows vertically through a thin membrane onto the absorbent pad.

Axiflow absorbent pads are made with 100% cotton linter and have fast wicking to support the maximum sensitivity & specificity of the test.

## Technical Properties

### (a) Membrane

| Cat. No. | Pore Size (µm) | Thickness (µm) * |
|----------|----------------|------------------|
| AXF20    | 0.20           | 140              |
| AXF30    | 0.30           | 140              |
| AXF45    | 0.45           | 140              |
| AXF80    | 0.80           | 140              |

*\*Thickness may vary upto 20 µm from the specification*

### (b) Absorbent

| Cat No. | Material           | Basis Weight g/m <sup>2</sup> | Thickness (mm) | Wicking Rate s/4 cm | Water Absorption (mg/cm <sup>2</sup> ) |
|---------|--------------------|-------------------------------|----------------|---------------------|--|
| 1420    | 100% Cotton Linter | 180                           | 0.42           | 80                  | 40                                     |

Absorbent with different thickness and absorption available on request.

### Ordering information (Membrane + Absorbent)

Dimensions of the membrane are custom-slit based on client's requirement.

Order is to be placed in the following format:

| Membrane Cat. No. | Absorbent Cat. No. | Sheet Length (mm)             | Sheet Width (mm)             | Quantity                        |
|-------------------|--------------------|-------------------------------|------------------------------|---------------------------------|
| AXF-00            | 1420               | Please specify desired length | Please specify desired width | Please specify desired quantity |

Example: AXF-45, 1420, 30 cm X 30 cm, 2000Nos.



## Technical Support

For technical assistance, please write to us at [jatin@axiflow.co.in](mailto:jatin@axiflow.co.in)  
or visit our website [www.axiflow.co.in](http://www.axiflow.co.in)



## Order

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