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## Latex beads migration assay test V.2

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### ABSTRACT

The following protocol details how to test the migration of conjugated latex beads through different nitrocellulose membranes.

### GUIDELINES

For preparation of sealed membranes we have used the protocol available in : [dx.doi.org/10.17504/protocols.io.8hdht26](https://doi.org/10.17504/protocols.io.8hdht26).

### MATERIALS TEXT

- Wax sealed nitrocellulose membranes
- BSA 0.2 % in PBS Buffer
- Conjugated latex beads Stocks at 1% wt in PBS-T (0.1 %) buffer.

### BEFORE STARTING

Cut the nitrocellulose previously to the desired size of the strip.

#### Membrane Preparation

- 1 Prepare two FF170HP strips and three FF80HP strips of 1cm wide x 4 cm long.  
Wax print the microfluidic membranes following the protocol mentioned in the guidelines section.
- 2 Block one FF170HP and two FF80HP membranes by immersion in 0.2 % BSA solution in PBS. Let the membranes dry for 1h at room temperature, and let them on a dissecator at 4°C overnight.

#### Migration test

- 3 Aspire 20 µL of conjugated latex beads stock, and pipette them on the sample deposition area of the sealed membranes.  
  
It's recommendable placing the strips with a briefly inclination degree, avoiding the sample to fall down through the membrane surface. (Placing the sample deposition region on the down region).
- 4 Wait 15 minutes until the liquid in the sample has migrated completely. Results can be directly visualized. Wait until the membranes have dried to manipulate them.



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