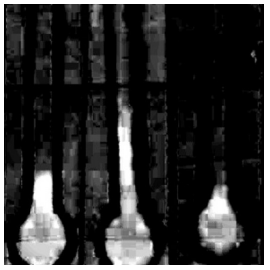
Oct 21, 2019 Version 1

Latex beads migration assay test V.1



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Protocol status: Working
We use this protocol and it's working

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Abstract

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

Guidelines

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

Materials

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

Before start

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

ddMembra Preparatin

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 guideliness 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 4ºC 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 trough 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.