

Nucleic Acid Capture



Before starting please read the entire protocol.

Products

- Bio-Adembeads Streptavidin
- or MasterBeads Streptavidin
- SSC 20X Buffer
- Biotinylated probe



Equipment

- Magnet
- Microtubes



1- Magnetic particles preparation

- Pipette **20µl (100µg) Bio-Adembeads Streptavidin** to a microtube 1.5ml
- Place the tube on the magnet until supernatant clearing and discard the supernatant
- Resuspend the beads in **100µl of SSC 5X Buffer**
- Place the tube on the magnet until supernatant clearing and discard the supernatant
- Resuspends the beads in **50µl of SSC 5X Buffer (solution 1)**

2- DNA/ biotinylated probes complexe formation

- Dilute up to 1µg of DNA target into **50µl of SSC 5X Buffer**
- Add **25µl of biotinylated probe** (20pmol in 25µl of SSC 5X buffer)
- Heat **15 min at 95°C, 1 min at 64°C, 1 min at 50°C, and 1 min at 37°C**
- Complexe formation (**solution n°2**)

3- Capture of the complexe by magnetic particles

- Add magnetic particles (**solution 1**) to the complexe (**solution 2**) and mix by pipetting
- Incubate **10min at RT**
- Place the tube on the magnet until supernatant clearing and discard the supernatant, resuspend the beads in **100µl of SSC 0.1X** Buffer. Mix by pipetting.
- Repeat twice the previous step

4- Nucleic acid elution

- Resuspend the beads in desired amount of **nuclease free water** (50µl is recommended) and mix by pipetting
- Incubate **5 min at 50°C**
- Place the tube on the magnet until supernatant clearing
- Transfer the supernatant (containing the eluted NA) into a new microtube

Procedure