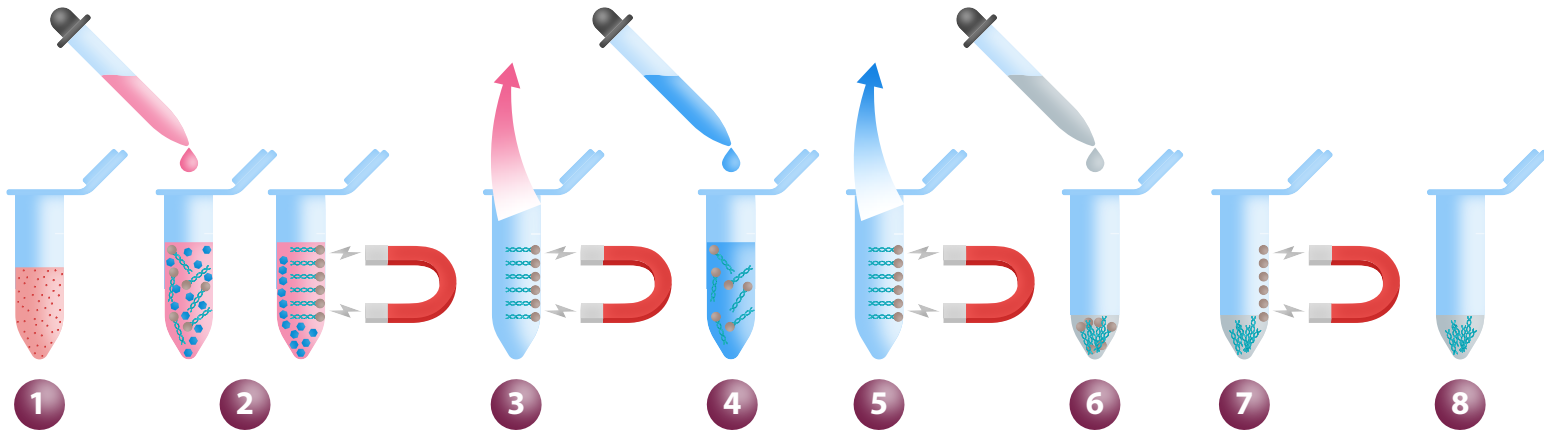


Blood/Cell DNA Extraction

Magnetic Bead-Based DNA Isolation from Blood and Cell Samples



- 1 Transfer 100 μL of whole blood sample or 100 μL of cell suspension in PBS to 1.5 mL tube
- 2 Add 20 μL of **Proteinase K*** and 400 μL of **Lysis/Binding Buffer** and mix well by pipetting up-down 10x, then incubate 5 mins to allow for lysis and DNA binding
* *Proteinase K is necessary for blood sample, and optional (0-10 μL) for cell suspension sample*
- 3 Place tube on magnetic rack to capture DNA-bead complex (~1-2 mins), then remove supernatant
- 4 Remove tube from magnetic rack and resuspend DNA/bead complex in 600 μL of **Wash Buffer #1**
- 5 Return to magnetic rack and remove supernatant, repeat wash with 600 μL **Wash Buffer #2** and leave to dry (1 min)
- 6 Remove tube from magnetic rack and resuspend DNA-bead complex in 50-200 μL of **Elution Buffer***, then mix well by pipetting up-down 20x to elute DNA from beads
* *Recommended elution is 50-100 μL for blood sample and 100 μL per 1×10^6 cell suspension sample*
- 7 Place tube on magnetic rack to separate beads (~1-2 mins)
- 8 Transfer clean DNA solution to clean tube