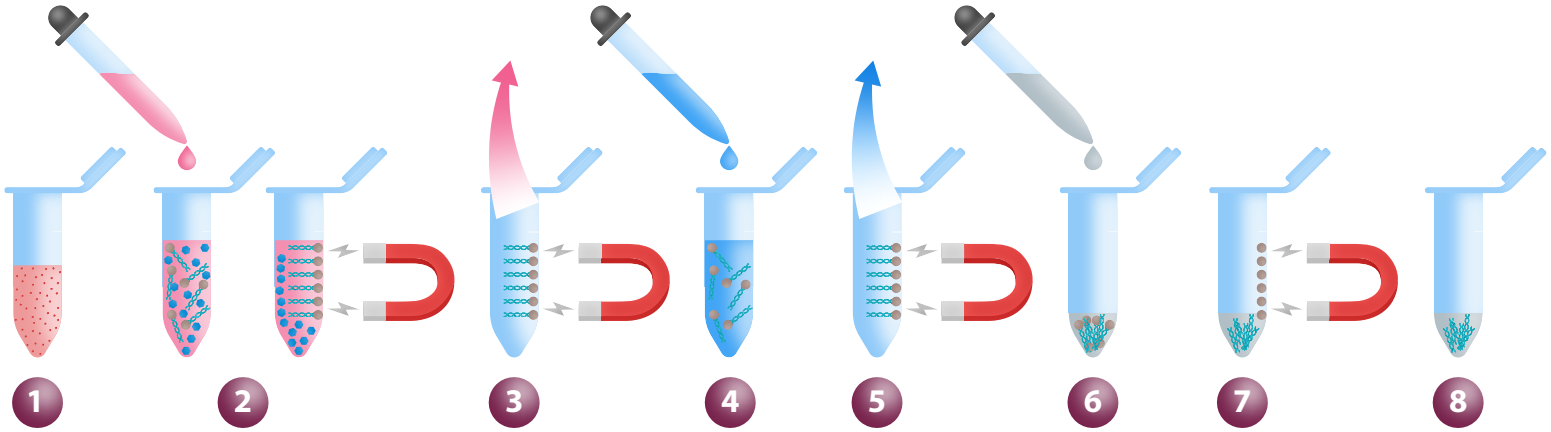
magnetiC

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 1x10⁶ cell suspension sample*
7. Place tube on magnetic rack to separate beads (~1-2 mins)
8. Transfer clean DNA solution to clean tube

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