# PURIFYING GENOMIC DNA FROM WHOLE BLOOD

1 **Lyse blood**

Add 25µl Proteinase K solution and 200µl sample into a 1.5ml microcentrifuge tube (not supplied).
Add 200µl Lysis Buffer G3 and vortex vigorously for 10–20s.
Incubate samples at 70°C for 10–15 min.

2 **Adjust DNA binding conditions**

Add 210µl ethanol (96–100%) and vortex.

3 **Bind DNA**

Place ISOLATE II Blood DNA Spin Column in a 2ml Collection Tube and load sample onto column.
Centrifuge 1 min at 11,000 x g.
Repeat at a higher g force if samples are not completely filtered through matrix.
Place column in a new 2ml Collection Tube.

4 **Wash silica membrane**

- Add 500µl Wash Buffer GW1.
  Centrifuge 1 min at 11,000 x g.
  Place column in a new 2ml Collection Tube.
- Add 600µl Wash Buffer GW2.
  Centrifuge 1 min at 11,000 x g.
  Discard flow-through and reuse Collection Tube.

5 **Dry silica membrane**

Centrifuge 1 min at 11,000 x g to remove residual ethanol.
Place ISOLATE II Blood DNA Spin Column in a 1.5ml microcentrifuge tube (not supplied).

6 **Elute DNA**

Add 100µl preheated Elution Buffer G (70°C) directly onto center of silica membrane.
Incubate at room temperature for 1 min.
Centrifuge 1 min at 11,000 x g.