



## Ratin Gene Blood DNA Extraction Kit

### Components of the kit:

- RG Lysis solution (CN: RG-LS), 1 vials 50 mL
- RG Bead (CN:RG-BEAD), 1 vials 5 mL
- Washing solution A (CN: RG-WSA),1 vials 25 mL
- Washing solution B (CN: RG-WSB),1 vials 50 mL
- DNase free water (CN: RG-DW), 1 vials 10 mL
- High purification column
- Collecton Tube

### procedure

1. Add the 400  $\mu$ L fresh Blood into a microtube
2. Add 1mL of RG Lysis solution to the microtube.
3. Vortex the microtube and incubate for 10 mins at 70°C .
4. Add 100  $\mu$ L RG Bead and mix for 1 min (invert)
5. Transfer lysate to High pure column
6. Centrifuge column in 8000 RCF for 1 min
7. Discard transferred lysate and repeat 5 and 6 steps to use of whole of lysate.
8. Change the Collection Tube.
9. Add 500  $\mu$ L RG Washing solution A to the column and then centrifuge in 8000 RCF for 2 mins.
10. Discard transferred Washing solution A.
11. Add 800 $\mu$ L Washing solution B to the column and centrifuge in 8000 RCF for 1 min.

- Discard transferred Washing solution B
- Centrifuge column in upper speed for 3 mins
- Transfer column to new DNase free microtube
- Incubate in room temperature for 4 mins to drying the column
- Add 60 $\mu$ L prewarm(70°C) DNase free water and incubate for 4mins
- Centrifuge the column in upper speed for 1min .

Note:to increase yield of DNA you can transfer the product from microtube to column and centrifuge again.

**Safety directions:** The lysis solution and Washing solution A are tissue hazard material, hence, in the cases of contact with skin, eyes, ETC, wash with water and refer to the hospital for additional medications.



## Ratin Gene Company

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