(DP334) TIANamp Blood Spots DNA Kit

——Blood Spots

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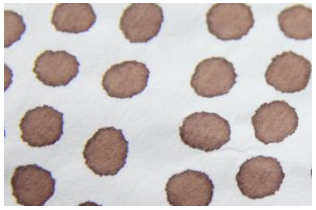
Ver. No. 20170328

Experiment Preparation

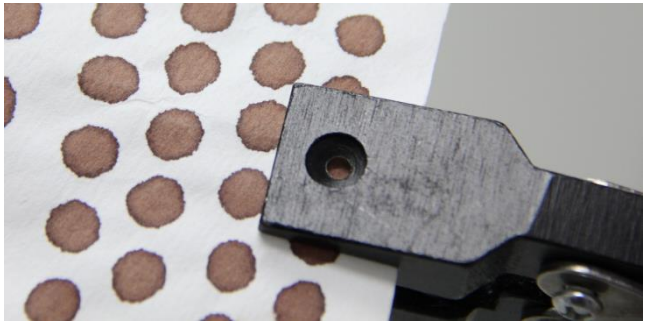
1. Dry blood spot; Puncher（3 mm）
2. 96-100% ethanol
3. Pipette and matched sterile tips (10 μl, 200 μl, 1 ml);　　1.5 ml centrifuge tubes
4. Vortex oscillator; Dry bath/water bath; Centrifuge



Experiment Preparation - Kit Preparation

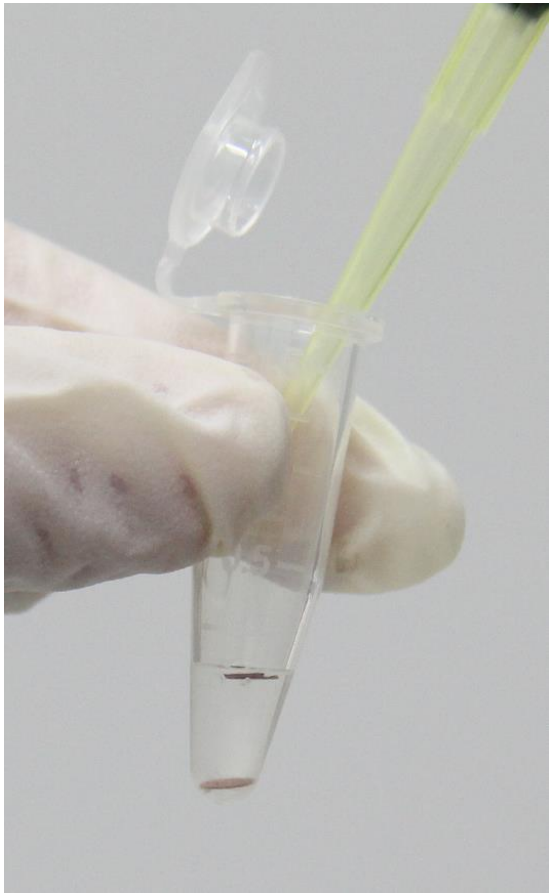
Please add 96-100% ethanol in Buffer PW and GD before use according to the volume indicated on the label of the bottle.

Step 1



Add 3 pieces of dried blood spot samples with a diameter of 3 mm into a 1.5 ml centrifugal tube.

Step2



Add 200 µl of Buffer GA.

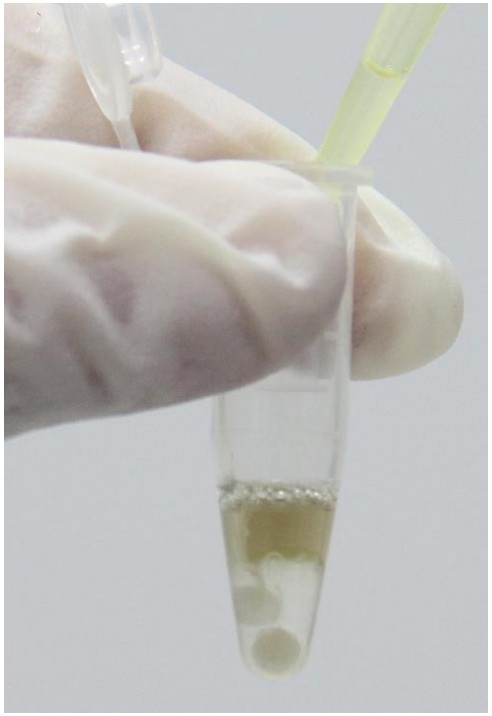
Step 3

Add 20 μl Proteinase K

Vortex for 10 sec to mix

Incubate at 56℃ for 1 hr, during which vortex for 10 sec every 10 min.

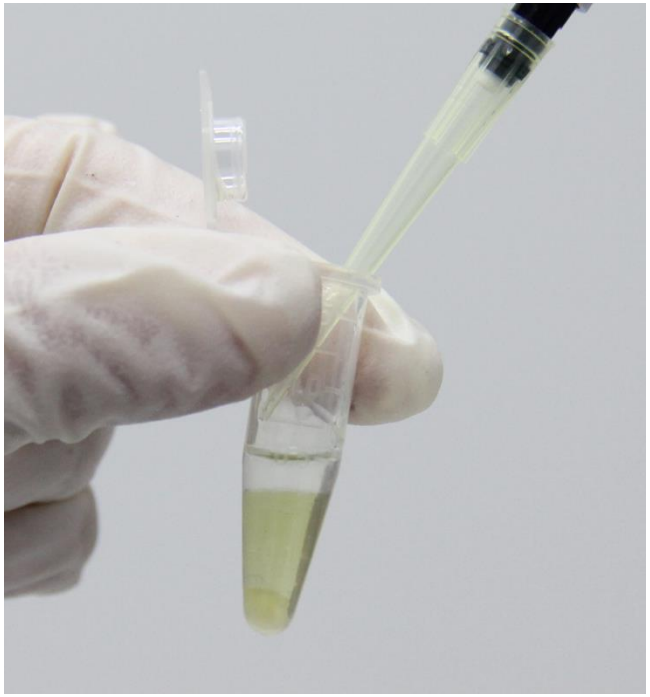
Step 4



Add 200 μl of Buffer GB, and mix thoroughly by vortex for 10 sec

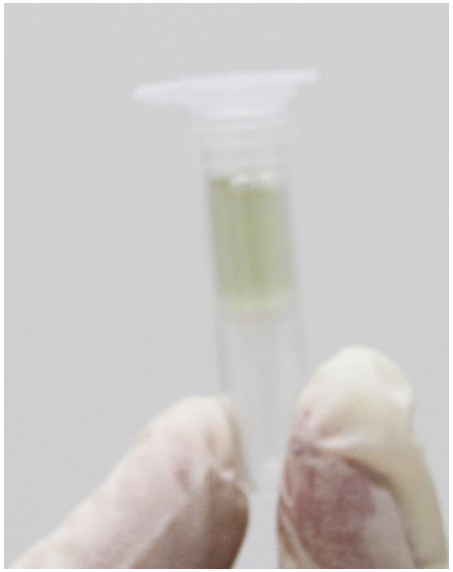
Incubate at 70℃ for 10 min, during which vortex for 10 sec every 3 min. Briefly centrifuge to remove water drops of the cap and inner wall after the incubation.

Step 5



Add 100 μl 96-100% ethanol. If room temperature is higher than 25℃, please prechill ethanol on ice. Gently mix the sample upside down, and incubate at room temperature for 5 min. Briefly centrifuge to remove water drops of the cap and inner wall.

Step 6



Transfer the solution from the previous step to Spin Column CR2 (place CR2 in the collection tube).

Centrifuge at 12,000 rpm (~13,400×g) for 30 sec, discard the waste liquid in the collection tube and place the Spin Column CB2 into the collection tube.

Step 7

Add 500 μl Buffer GD to Spin Column CR2 (ensure that 96-100% ethanol has been added before use).

Centrifuge at 12,000 rpm (~13,400×g) for 30 sec, discard the waste liquid in the collection tube and place the Spin Column CR2 into the collection tube.

Step 8

Add 700 μl Buffer PW to Spin Column CR2 (ensure 96-100% ethanol has been added before use).

Centrifuge at 12,000 rpm (~13,400×g) for 30 sec, discard waste liquid in the collection tube and place the Spin Column CR2 into the collection tube.

Step 9

Add 500 μl Buffer PW to Spin Column CR2 (ensure 96-100% ethanol has been added before use).

Centrifuge at 12,000 rpm (~13,400×g) for 30 sec, discard waste liquid in the collection tube.

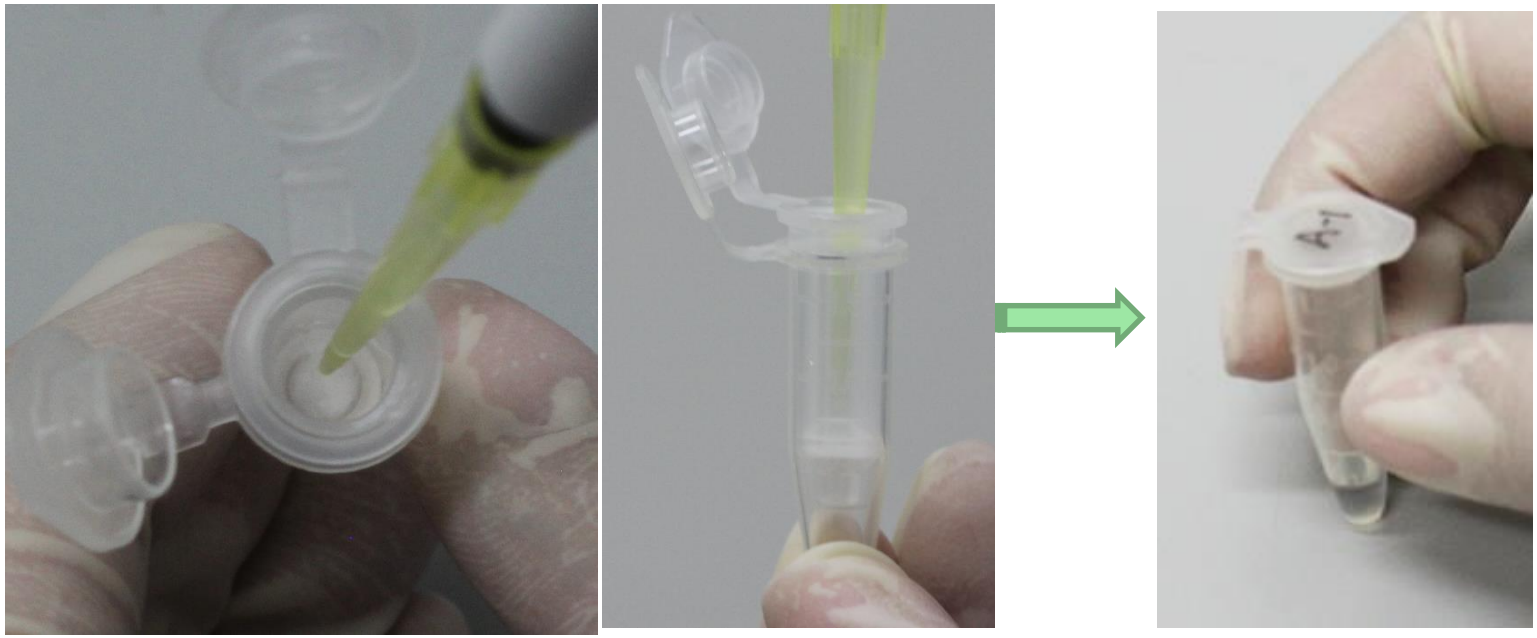
Step 10

Place the Spin Column CR2 in the collection tube. Centrifuge at 12,000 rpm (~13,400×g) for 2 min, and discard the waste liquid.

Place the Spin Column CR2 at room temperature for 2-5 minutes to completely dry Buffer PW in the membrane.

Note: Ethanol residues in Buffer PW can inhibit subsequent enzymatic reactions (restriction enzyme digestion, PCR, etc.) experiments.

Step 10



Transfer the Spin Column CR2 into a 1.5 ml centrifuge tube, and add 20-50 μl Buffer TB to the middle of the adsorption membrane. Place at room temperature for 2 min and centrifuge at 12,000 rpm (~13,400×g) for 2 min to collect the solution into the centrifuge tube.