(DP316) TIANamp Micro DNA Kit ——Serum/Plasma

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Experiment Preparation

1. Serum/plasma samples (this experiment takes serum as an example)
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

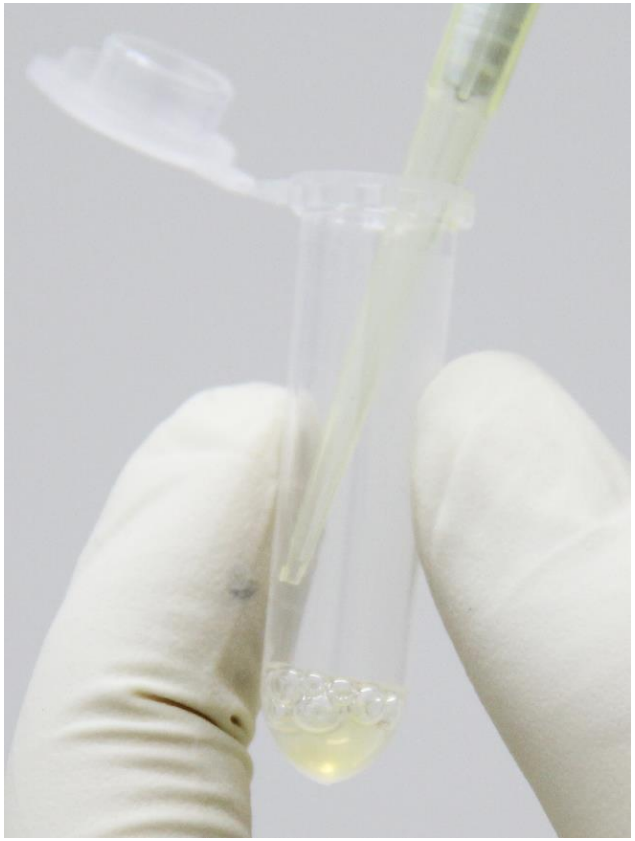
Experiment Preparation-Kit Preparation

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

Preparation of Carrier RNA stock solution

When using carrier RNA for the first time, please dissolve Carrier RNA (310 µg) in 310 µl RNase-Free ddH_2O, then aliquot the solution and store at -20℃. The concentration of the solution is 1 µg/µl. Avoid repeated freezing and thawing for more than 3 times.

Step 1



Take 100 µl – 200 µl serum/plasma into 2 ml centrifuge tube. If less than 100 µl, add Buffer GA to100 µl final volume.

Step 2

Add 20 µl Proteinase K, and mix well by vortex. Add 200 µl Buffer GB, and gently mix well upside down.

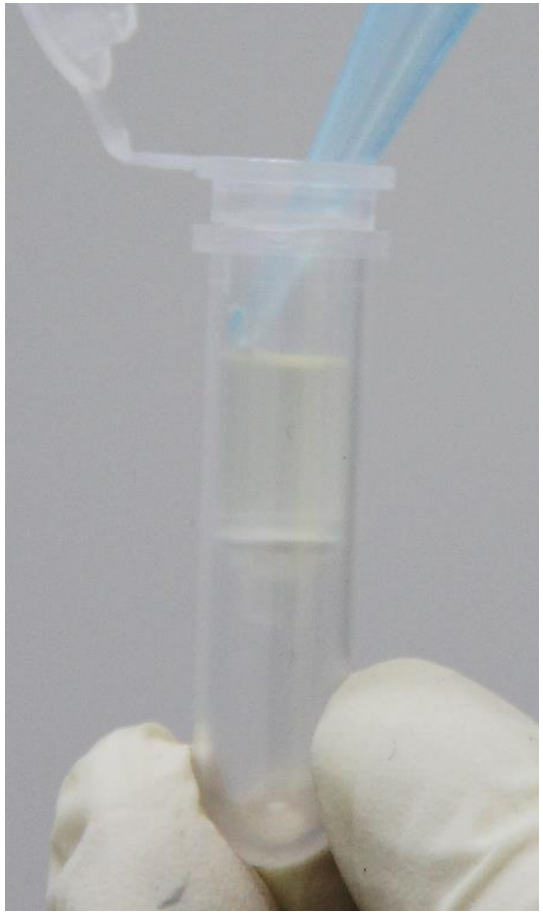
Incubate at 56℃ for 10 min, and shake the sample during the period. Briefly centrifuge to remove water drops of the cap and inner wall.

(If serum/plasma volume <50 µl, add 1 µl of 1 µg/µl Carrier RNA storage solution)

Step 3

Add 200 µl ethanol (96-100%). If the room temperature is higher than 25℃, please precool ethanol on ice. Gently mix the sample well upside down, and place at room temperature for 5 minutes. Briefly centrifuge to remove water drops of the cap and inner wall.

Step 4



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

Step 5

Add 500 μl Buffer GD to Spin Column CR2 (make sure 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 6

Add 600 μl Buffer PW to Spin Column CR2 (make sure 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.

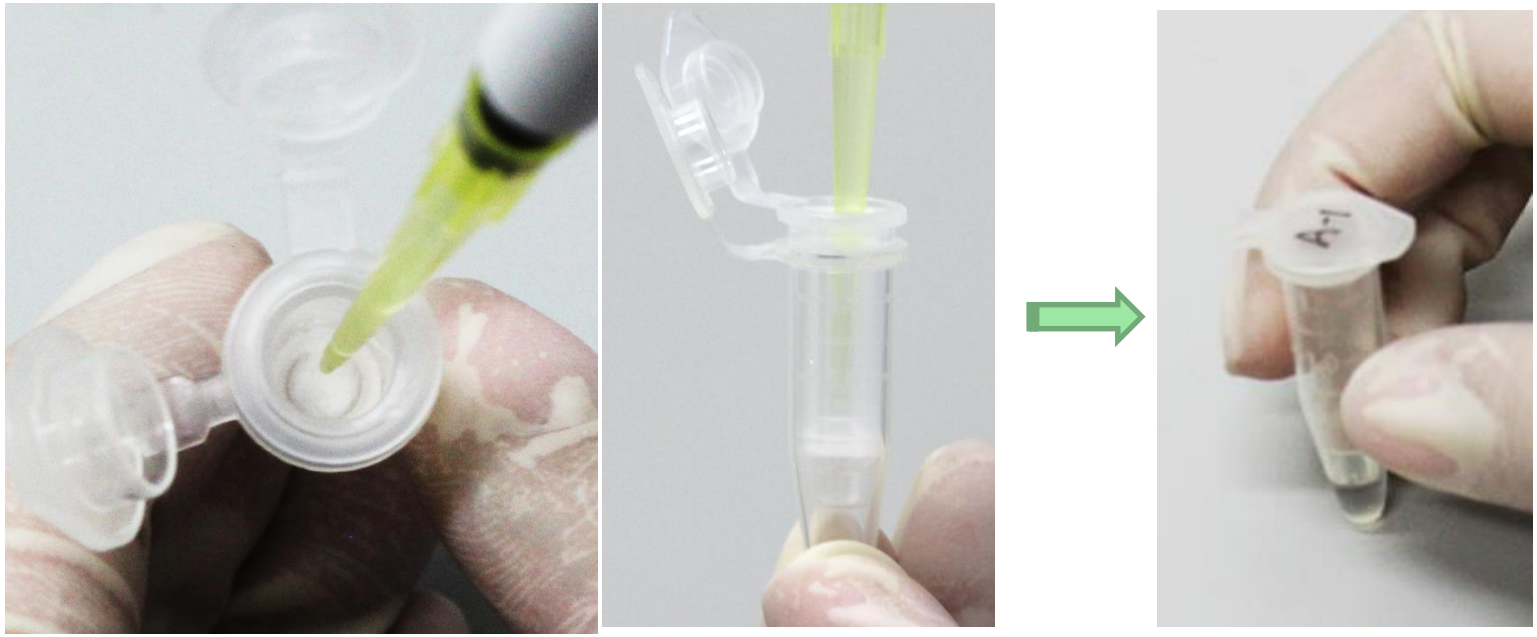
Step 7 Repeat Step 6.

Step 8

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 minutes to completely dry Buffer PW in the membrane.

Step 9



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.