Tissue Genomic DNA Extraction mini Kit

(Cat: FATGK001)
(For research use only)

Special protocol for Clean-up genomic DNA

Important Notes:
1. Buffers provided in this system contain irritants. Wear gloves and lab coat when handling these buffers.
2. Add indicated volume of ethanol (96-100%) to Wash Buffer before use.
3. Prepare a heating block or a water bath to 60 °C.
4. All centrifuge steps are done at full speed (~18,000 x g) in a microcentrifuge.
5. Preheat Elution Buffer or ddH2O to 65°C for elution step.

Additional requirement:
Benchtop microcentrifuge
Vortex or bead beater equipment
1.5 ml microcentrifuge tubes
Heating block or a water bath to 60 °C
96~100 % ethanol

Protocol:
Please Read Important Notes Before Starting The Following Steps.
1. Add 250 µl of FATG2 Buffer to 200 µl of the sample. Mix well by vortexing.
2. Add 25 µl of Proteinase K and mix well by vortexing. Incubate the sample mixture at 60 °C for 15 minutes, and vortex the sample mixture for 2 times during the incubation.
3. Add 250 µl of 96~100 % ethanol. Mix well by vortexing.
4. Place a FATG Column into a Collection. Transfer the sample mixture to the fATG Column. Centrifuge at speed ~18,000 x g 1 min and discard the flow-through. Place the FATG Column into a new Collection Tube.
5. Add 400 µl of W1 Buffer (ethanol added) to the FATG Column. Centrifuge at at speed ~18,000 x g for 1 min then discard the flow through. Return the FATG Column back to the Collection Tube.
--Make sure that ethanol (96~100%) has been added into W1 Buffer when first use.
6. Add 650 µl of Wash Buffer (ethanol added) to the FATG Column. Centrifuge at at speed ~18,000 x g for 1 min then discard the flow through. Return the FATG Column back to the Collection Tube.
--Make sure that ethanol (96~100%) has been added into Wash Buffer when first use.
7. Centrifuge at full speed (~18,000 x g) for an additional 3 min to dry the FATG column.
--Important step! This step will avoid the residual liquid to inhibit subsequent enzymatic reactions.
8. Place the FATG Column into a 1.5 ml microcentrifuge tube (not provided). Add 40~100 µl of preheated Elution Buffer or ddH2O to the membrane center of the FATG Column. Stand the FATG Column for 2 min at room temperature.
--Important step! For effective elution, make sure that the Elution Buffer or ddH2O is dispensed onto the membrane center and is absorbed completely.
9. Centrifuge at full speed (~18,000 x g) for 1 min to elute DNA.